



# The Industrial Park in Huizhou

## MOVING FORWARD

In 2004, Minwa constructed a new industrial park in Huizhou, Guangdong with a view to further revolutionizing our development and establishing a better work-flow. The certification of SA8000, ISO9001: 2008, ISO17025 and the execution of GPMS, the new factory, which symbolizes our achievement and strong capacity to serve our customers best.

## FACILITIES AND ACCOMMODATION

The new plant is fully vertically integrated. The R&D, new product development, product tests, in-house tooling, injection molding, metal stamping, cable fabrication, and coil winding departments, accommodates up to 100 production lines enabling a high flexibility in production and products competitiveness. There are more than 3,000 staff and an excellent development team specializes in different disciplines. We provide in-house training to our engineers in order to familiarize with the latest technological developments and requirements of worldwide safety standards. Our well-equipped engineering team is ready to serve our OEM/ODM customers with proficiency.



## BATTERY MANUFACTURING, COPPER WIRE MANUFACTURING & PRINTING COMPANY

Pursuance of excellence in our products, we started to produce our own rechargeable Ni-Cd & Ni-MH batteries in 2008. The entire investment of the department is 1 million US dollars. The professional management team & production team persist to provide high quality batteries with low price.

## LED LIGHTING

In 2010, we moved a big step to manufacture LED lighting. The passionate we are on environmental conservation, drives us to develop high energy-efficient and eco-friendly LED bulbs. Our development team makes effort on designing the new form of LED bulbs which are high quality, versatility in color and long life. Together with our copper wire manufacturing and printing company, which concentrate on equipment automation, production technique and staff training, we can take the advantage.



## BETTER ENVIRONMENT FOR WORKERS

Minwa pays great attention to provide workers better working and living environment. The 7-storey worker's dormitories with a total floor area of 30,000 sqm site provides a comfortable accommodation, daily necessities, canteen, recreational and leisure facilities for up to 8,000 workers. The new plant certificated SA8000, which proves our working conditions and environment met the international standards. Minwa deposit the electronic waste properly according to WEEE and RoHS Directives.

## SOCIAL RESPONSIBILITY

Minwa knows education is the best way to improve standard of living. Being a responsible social business group, we provide on-the-job training to our workers and subsidies to the establishment of schools for the Huizhou. The implementation of GPMS, a line-up of the all departments in our factory, not only ensures our products are hazardous free, but also minimizes the emission of harmful substances affecting the area. We hope our actions can contribute to society on the ground of profit making. The new industrial park is the milestone of excellence in Minwa's products and services.



# Minwa Community

Our core values are in terms of quality, safety, staff welfare, and social responsibility. Other than the good working place we provide to our workers, Minwa also cares the living environment of our people. The industrial park is a working place, it also a community to the person who live there.

## IMPROVING QUALITY OF LIFE

Our mission to achieve environment health and justice is the construction of the new factory plant to a large greenbelt. This project gives us a lot of advantages. The factory will be about 20% of land covered by green plants to enhance the quality of air, the well-being of the workers.







• Sewage water irrigation



• Supermarket



• Fresh fruit



• Web surfing center



• Solar panels at the roof

The landscape-engineering is ongoing with a great success. After the completion of the project, the planted area is full of fruit trees, brushes, arbors, different kinds of flowers, etc., which improves the appearance of the new industrial park, and peoples live in here with their family are now enjoying fresh air, a healthier living environment, better vision of the working and living place, no matter they are working or during leisure.

We apply the sewage treatment system to irrigate the land. We collect the domestic and industrial used water by sewage pipes. Through the system, the water is filtered and recycled for irrigation. The make use of solar power is to reduce the use of electricity and gas but at the same time increase the living condition of our people. We set up hundreds of solar panel at the roof of every dormitory, converting solar power to heat in order to provide all-weathered hot water for the entire building. We save the environment to bless our generations



• "Back home safe" program



• Table tennis hall



• "Smart card" system



• Canteen

## IMPROVING LIVING CONDITIONS

Minwa pays great attention to provide our workers with a better working and living environment. The 7-storey dormitories with a total floor area of 30,000 sqm site, which provides a comfortable accommodation for single, couple, and couple with child. Every room has its own bathroom, color TV and storage area.

We understand that fresh and nutritional food is good to health. Therefore we purchase fresh vegetables and fruits from the farmers nearby. As a living place, recreation and leisure facilities are essential to keep healthy. The industrial park has enough spaces and facilities for family and children to play with. The basketball & badminton courts, table tennis hall, websurfing center and more are provided for up to 8,000 workers. We also launched the "back home safe" program to ensure those kids get back from school safely.

The new plant certificated to SA8000 & ISO 14001, which proves our working conditions and environment are met the international standards. We take pride in what we have achieved, and we shall keep improving ourselves to meet all-round success.



• Basketball match



• Fish pond nearby



• Auto patrol



• Well trained security guards



• Cycling in the park

# About Us

Minwa Electronics Co., Ltd. established in 1977. Minwa has been robustly growing from a local electronics company to a leading manufacturing company of its kinds serving worldwide customers with experience, innovation and outstanding service for years.

To cater our valued customers' needs in the fast-changing market, we diversify our products ranging from OEM products, power supplies, battery chargers, electronic accessories and technological solutions. Minwa certified to ISO9001 and its laboratory obtained the ISO 17025 accreditation from TÜV Rheinland. Therefore, the laboratory is entitled to conduct in-house LVD safety tests and calibration tasks in conformity with both EN and CB standards. With these laboratories in place, the product development cycle is shortened and become far more advanced. Our products thus getting much cost effective and competitive in the worldwide market. Most of our products carry international approvals, such as cULus, cSAus, CE, GS, ETL, C-tick, Q#, PSE, CB scheme, e-mark, Argentina S mark, EK mark and so forth. We have a newly developed high-energy efficiency SMPS series, aims to reduce energy loss during loading or no load of adaptors, the series consists single voltage and multiple voltage outputs. The new series complies with 2nd enforcement stage of ErP, (for EU countries), which much more rigorous than the CEC and MEPS ones. This explains our new series also complies with CEC (US market) and MEPS (Australian market).

In addition, Minwa implemented the system of ISO 14001 and acquired the SA 8000 certification, which represented our strong capacity to provide quality and environmental friendly electronic products to customers as well as a decent working environment to workers.

Pursuance of excellence in both products and services has led us forward over the past 40 years, we take pride in what we have achieved, but will never cease to seek improvement and growth. We thank our existing customers for their continued support to witness our growth and welcome any suggestions for improvement. We are looking forward to be the opportunity of establishing a partnership with those we have yet to serve in the near future.



ISO9001:2008 Certificate



TÜV ISO 17025 Certificate



ISO 14001 Certificate



SA8000 Certificate





# Words from CEO

I would like to express my gratitude to all of you.

Since the establishment of Minwa Electronics Co, Ltd in 1977, we receive numerous of love and support from our customers and suppliers, and the devoted services from our staff.

Ups and downs were along the way of these years. Experienced the economic

take-off from 70'S - 80'S, we established the foundation of the company, moved the production facilities from Hong Kong to Shanghai in 1980. This was our first factory in China. We opened our second manufacturing plant in 1982 in Shilong, Dongguan. Few years later, in 1985, there were 3 more plants opened in Tianxin, Shahe and Sunjiang. A significant movement of Minwa took place in 1989, we moved the factory to Buji, Shenzhen, further expanded our business ground wider and wide. This was a well-planned factory, with many facilities and spaces for the company growth.

The SARS and the worldwide financial crisis stroked hard in 2003 and 2008 respectively, we took the challenge and even managed to initiate a well-developed industrial park in Huizhou. On the other hand, we worked closely to suppliers and customers in order to keep the survival of all of us.

In 2008, we moved to the new plant in Huizhou in order to have enough space for the business and production expansion. We started the LED business in 2010. Following the development of car battery chargers, game consoles accessories and IOT/ Smart Home products, etc with great success. I thank again our staffs who strive to do the very best of their ability.

The European and American governments imply more and more strict regulations on electronic products in recent years. Such as establish new safety standards and frequent market surveillances. At the same time wages in China are constantly increasing years after years, which result in production cost fluctuation. We foresee these difficulties as opportunities. To strengthen products' reliability, we invest more resources to ensure that everything from raw materials to finished products is safe. The new EMC laboratory which is up to international standard is now in progress and will be expecting to put into service in 2017. The construction of two more new buildings in the factory is for the preparation of our bigger factory automation plan, which is able to solve the shortage of workers and wages problems. We will not be satisfied by this, as we want to be the best within our specialist area.

The investment of our group in Hong Kong in hotels, shopping malls and buildings are put into services from this year. 2017 is not only the 40th anniversary of Minwa Electronics Co., Ltd, but also the milestone of our real estate development.

We will continue taking up challenges. We look forward to your continuous support and guidance in the future.



# MFi

Made for  
iPhone | iPad | iPod

Made for  
iPhone | Apple Watch

## One-stop Solution

As an official licensee of MFi program, all electronic accessories we produce for iPod, iPhone, iPad are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

Customers simply choose the items from our MFi series, that particular items going to sell are entitled legally. Customers are allowed to use the MFi logo not only on the packaging but also on different promotions such as online, leaflets, catalogues, etc. without paying extra money but increase the market value. With the authorization of using this well-known logo, end users are easy to recognize and differentiate the licensed items from those copy cats.

Many consumer electronic magazines are also recommended end users to buy Apple accessories with this particular MFi logo as a kind of quality assurance.

## OEM/ ODM with MFi License

Other than buying directly from our MFi series, we entitle to proceed the MFi certification of the items in customers' own brand.

Our experienced and strong engineering and design team is ready to develop new items together with customers. Throughout the years, we successfully completed many ODM projects with MFi license.

**Contact our sales persons for details  
or email to: [sales@minwa.com.hk](mailto:sales@minwa.com.hk)**

Wireless Chargers — P.6-7

Lightning cables — P.8-11

Lightning AC Chargers — P.11-13

Lightning DC Chargers — P.13-14

30pin AC&DC Chargers — P.14-20



iBz-WL01 is a wireless charging pad. With this stylish design, you can charge your Qi-compatible devices without attach your device to wall charger or USB port. Simply place your device directly onto the charging pad and begins to charge. This wireless charging pad is compatible with all Qi-enabled devices such as – iPhone8, iPhoneX, Samsun Galaxy S8, Nokia Lumia, HTC 8X, Google Nexus, Sony Xperia, Blackberry Z30 and so on. iBz-WL01 is always supplying wireless power whenever you put your device on the pad.

## iBz-WL01A

### Universal Wireless Charging Pad

**New**

Input voltage: 5V DC  
Input port: Micro USB socket  
Output voltage: 5V/1A (Normal)  
7.5V/1A (Apple quick charge)  
9V/1.2A (Samsung quick charge)  
Packed with: MW CB15-100  
Option: MW QA20W  
Dimension: 11.5 x 97 x 97mm  
Packing: Individual color giftbox  
Power LED: Blue  
A metallic foreign object



## iBz-WL01D

### Universal Wireless charging Car Mount

**New**

Input voltage: 5V DC  
Input port: Micro USB socket  
Output voltage: 5V/1A (Normal)  
7.5V/1A (Apple quick charge)  
9V/1.2A (Samsung quick charge)  
Packed with: MW CB15-100  
Option: MW QD20D  
Dimension: 117 x 70 x 55mm  
Packing: Individual color giftbox  
Power LED: Blue  
A metallic foreign object



## iBz-MC100

### Micro USB to Apple Lightning & Type-C Cable USB Data & Charge

**New**

Input voltage: 5.0V DC  
Output current: 5.0V DC  
Cable Length: 1m  
With a fixed micro USB to Apple Lightning & Type-C connector  
Packing: Individual clamshell blister



Model Number	Length
iBz-MC120	2m

Below items are the MFi series with Apple Watch charging module and Lightning connector for Apple Watch, iPhone 5 and further. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

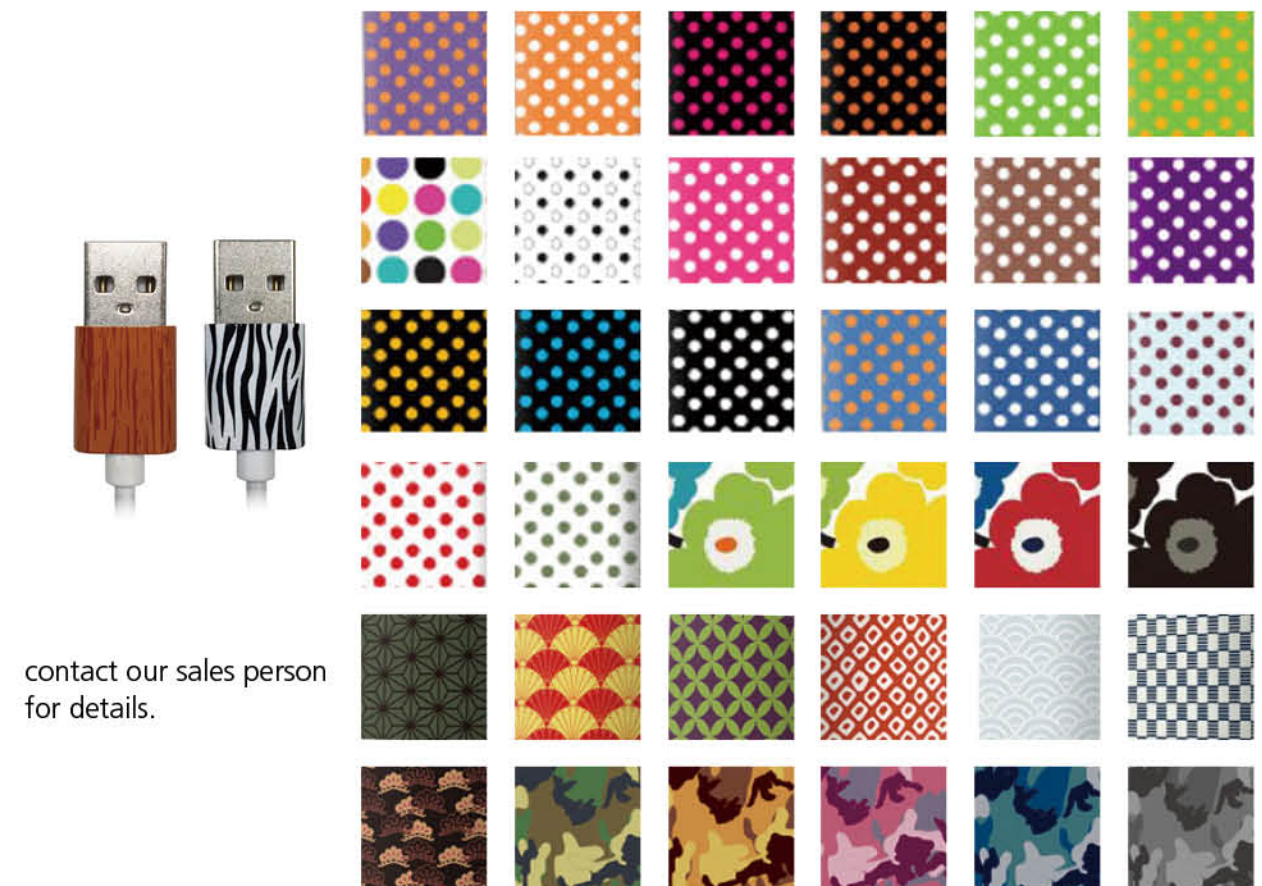
## iBz-WA100

### Apple Watch Charging Dock

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Output current: 1.0A  
Dimension: 40 x 58 x 28mm  
Pack with: MWCB15-100  
Option:  
MW UA21 (2.1A USB power supply)  
Packing: Individual color giftbox



**Customized cable plug pattern option available**



contact our sales person for details.



Below items are the MFi series with Apple Watch charging module and Lightning connector for Apple Watch, iPhone 5 and further. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

## iBz-DC15

Micro USB

to Apple Lightning Adaptor

Input voltage: 5.0V DC

Output voltage: 5.0V DC

\*Ideal for converting Micro USB  
to Apple Lightning connector

Dimension: 35.5 x 12 x 7.5mm

Packing: Individual clamshell blister



Made for  
iPhone | iPad | iPod



## iBz-JS030

30cm Micro USB

to Lightning Jump-Start Cable

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 30cm

Packing: Individual color giftbox



Made for  
iPhone | iPad | iPod



## iBz-R009

9cm Apple Lightning Cable w/ Ring Hold

USB Data & Charge

Input Voltage: 5.0V DC

Output Voltage: 5.0V DC

Cable Length: 9cm

Packing: Individual clamshell blister



Made for  
iPhone | iPad | iPod



Below items are the MFi series with Lightning connector for iPhone 5 and further. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

## iBz-021

20cm USB Data / Charging Flat Cable

Input Voltage: 5.0V DC

Output Voltage: 5.0V DC

Cable Length: 20cm

Packing: Individual clamshell blister

New Appearance  
Smaller in size



Made for  
iPhone | iPad | iPod



## iBz-201

1m USB Data /  
Charging Flat Cable

Input Voltage: 5.0V DC

Output Voltage: 5.0V DC

Cable Length: 1m

Packing: Individual color giftbox

New Appearance  
Smaller in size



Made for  
iPhone | iPad | iPod

iBz-201 LED



Connection LED



## iBz-M100

No Way to Lose Micro USB Cable to Apple Lightning  
Cable USB Data & Charge

Input Voltage: 5.0V DC

Output Voltage: 5.0V DC

Cable Length: 1m

With a fixed micro USB  
to Apple Lightning connector

Dimension: 35.5 x 12 x 7.5mm

Packing: Individual clamshell blister



Made for  
iPhone | iPad | iPod



Model Number	Length
iBz-115	1.5m
iBz-120	2m



Below items are the All-NEW Durable Cable with Apple Lightning connector. The products promised a exceptional bend lifespan. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

## iBz-300

**Tough Core 1m lightning Data/Charging Cable with Exceptional Bend Lifespan**

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Dimension: 1m  
Packing: Individual clamshell blister

Model Number	Length
iBz-320	2m
iBz-330	3m

**New**

**New New**



Made for  
**iPhone | iPad | iPod**



## iBz-B300

**Tough Core 1m lightning Data/Charging Braided Cable with Exceptional Bend Lifespan**

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Dimension: 1m  
Packing: Individual clamshell blister

**New**

Model Number	Length
iBz-B320	2m
iBz-B330	3m

**New New**



Made for  
**iPhone | iPad | iPod**



## iBz-200



**1m USB Data / Charging Cable**

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual color giftbox

Model Number	Length
iBz-120	2m
iBz-130	3m



Made for  
**iPhone | iPad | iPod**

## iBz-AB200CG

**1m USB Data/Charging Braided Cable with aluminum case**

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Dimension: 1m  
Packing: Individual color giftbox



Made for  
**iPhone | iPad | iPod**

## iBz-GBMC100

**1m Micro USB to Apple Lightning & Type-C Data/Charging Braided Cable**

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
With a fixed micro USB to Apple Lightning & Type-C connector  
Packing: Individual clamshell blister

Apple Lightning Type-C

**New**



Made for  
**iPhone | iPad | iPod**

Model Number	Length
iBz-GBMC120	2m

**New**

## iBz-A48



**Tiny 4.8Amp AC Power Set**

ErP 2nd stage compliance  
CEC efficiency: Level V  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output (1): 2.4A with Lightning connector  
Output (2): 2.4A, USB type A outlet  
LED indication: Blue power LED  
Dimension: 60 x 60 x 31mm  
Packing: Individual color giftbox



Made for  
**iPhone | iPad | iPod**



## iBz-NUA24EU-100

**2.4AMP AC Power Set**

ErP 2nd stage compliance  
CEC efficiency: Level V  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A  
Dimension: 53 x 30 x 47.5mm  
Packing: Individual clamshell blister

**New**



Made for  
**iPhone | iPad | iPod**





## iBz-A24



Tiny 2.4Amp AC Power Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output: 2.4A with Lightning connector  
LED indication: Blue power LED  
Dimension: 48 x 48 x 27mm  
Packing: Individual color giftbox



Made for  
iPhone | iPad | iPod



## iBz-A20



Tiny 2.0Amp AC Power Set

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

MW MAC45C Input Voltage:  
100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output (1): 1.0A with Lightning connector  
Output (2): 1.0A, USB type A outlet  
LED indication: Blue power LED  
Dimension: 48 x 48 x 27mm  
Packing: Individual color giftbox



Made for  
iPhone | iPod



## iBz-A10



Tiny 1.0Amp AC Power Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output: 1.0A with Lightning connector  
Dimension: 67 x 37.5 x 17.1mm  
Packing: Individual color giftbox



Made for  
iPhone | iPod



Below items are the MFi series with Lightning connector for iPhone 5 and further. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone".

## iBz-D48



Tiny 4.8Amp DC Power Set

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output (1): 2.4A with Lightning connector  
Output (2): 2.4A, USB type A outlet  
LED indication: Blue power LED  
Dimension: 25 x 69 x Ø20mm  
Packing: Individual color giftbox

Made for  
iPhone | iPad | iPod



## iBz-UD24-1-100

2.4A DC Power Converter

Input voltage: 12-24V DC  
Output voltage: 5.0V DC  
Output current: 2.4A with Lightning connector  
LED indication:  
Blue Power LED  
Dimension: 48.8 x Ø23mm  
Packing: Individual clamshell blister

Made for  
iPhone | iPad | iPod

New



MW iBz-UD21-1-100



New

2.1A w/Lightning connector



## iBz-D24



Tiny 2.4Amp DC Power Converter

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output: 2.4A with Lightning connector  
LED indication: Blue power LED  
Dimension: 47 x Ø20mm  
Packing: Individual color giftbox

Made for  
iPhone | iPad | iPod





Below items are the MFi series with Lightning connector for iPhone 5 and further. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone".

## iBz-D20



Made for  
iPhone | iPod

### Tiny 2.0Amp DC Power Converter

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output (1): 1.0A with Lightning connector  
Output (2): 1.0A, USB type A outlet  
LED indication: Blue power LED  
Dimension: 47 x Ø20mm  
Packing: Individual color giftbox



## iBz-D10



Made for  
iPhone | iPod

### Tiny 1.0Amp DC Power Converter

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output: 1.0A with Lightning connector  
LED indication: Blue power LED  
Dimension: 47 x Ø20mm  
Packing: Individual color giftbox



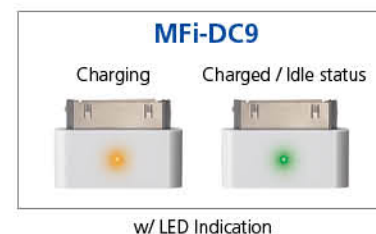
## MFi-DC1



Made for  
iPhone | iPad | iPod

### Micro USB to Apple 30-pin Adaptor

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
\* Ideal for converting Micro USB to Apple 30-pin connector  
Dimension: 18 x 21 x 6mm  
Packing: Individual clamshell blister



Below items are the MFi series. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

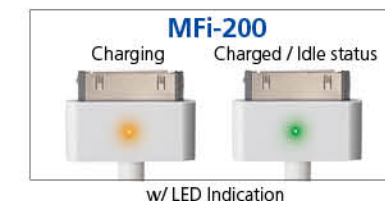
## MFi-100



Made for  
iPhone | iPad | iPod

### USB Data/ Charging Cable

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister



## MFi-017



Made for  
iPhone | iPad | iPod

### Compact 4.2Amp AC Power Set

ErP 2nd stage compliance  
CEC efficiency: Level V  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2.1A + 2.1A  
Led indication: Blue power LED  
Able to charge up to 2 iPads or tablets at the same time  
Dimension: 60 x 60 x 31mm  
Packing: Individual clamshell blister  
\*To buy adaptor solely, model no is MW USB5U



## MFi-323



Made for  
iPhone | iPad | iPod

### Tiny 4.2Amp DC Power Set

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 2.1A + 2.1A  
Led indication: Blue power LED  
Able to charge up to 2 iPads or tablets at the same time  
Dimension: 25 x 69 x Ø20mm  
Packing: Individual clamshell blister  
\*To buy car adaptor solely, model no is MW 3399





## MFi-015

Tiny 2.1Amp AC Power Set

ErP 2nd stage compliance  
CEC efficiency: Level ④  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2100mA  
Dimension: 50.7 x 47.7 x 62.9mm  
Package includes: 1pc AC USB adaptor  
1pc USB cable

Packing: Individual clamshell blister

\*To buy adaptor solely, the model no. is MW USB3U



Made for  
iPhone | iPad | iPod



MFi-100



## MFi-016

Tiny 2.1Amp AC Power Set (UK version)

ErP 2nd stage compliance  
CEC efficiency: Level ④  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2100mA  
Dimension: 47.8 x 44 x 48.7mm  
Package includes: 1pc AC USB adaptor  
1pc USB cable

Packing: Individual clamshell blister

\*To buy adaptor solely, the model no. is MW USB3UK



Made for  
iPhone | iPad | iPod



MFi-100



## MFi-011

2.1Amp AC Power Set

ErP 2nd stage compliance  
CEC efficiency: Level ④  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2100mA  
Dimension: 75 x 46 x 73.8 mm  
Package includes:  
1pc AC USB adaptor  
1pc USB to 30-pin cable (1m)

Packing: Individual clamshell blister

\*To buy adaptor solely,  
the model no. is MW 6FU21GS



Made for  
iPhone | iPad | iPod

MFi-012



W/ 4 Changeable Plugs



MFi-100

Below items are the MFi series. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

## MFi-603

2.1Amp AC Power Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ④  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output Current: 2100mA  
Dimension: 75 x 46 x 73.8 mm  
Packing: Individual clamshell blister



Made for  
iPhone | iPad | iPod

MFi-605



W/ 4 Changeable Plugs



## MFi-322

2.1Amp DC Power Set

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 2100mA (max)  
Dimension: 48.3 x 20 x 32mm  
Package includes: 1pc DC USB car converter  
1pc USB cable

Packing: Individual clamshell blister

\*To buy car converter solely,  
the model no. is MW 3395



Made for  
iPhone | iPad | iPod



MFi-100



## MFi-321

Tiny 2.1Amp DC Power Set

Input Voltage: 12-13.8V DC  
Output Voltage: 5.0V DC  
USB Output Current: 2100mA (max)  
Dimension: 63.5 x 20 x 15mm  
Package includes:  
1pc DC USB car converter  
1pc USB to 30-pin cable (1m)

Packing: Individual clamshell blister  
\*To buy car converter solely,  
the model no. is MW 9U21



MFi-100

Made for  
iPhone | iPad | iPod



MFi-672



W/ Fixed Cable





Below items are the MFi series. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

## MFi-001

**Tiny 1.0Amp AC Power Set**  
ErP 2nd stage compliance  
CEC efficiency: Level ①  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 74.3 x 39.6 x 22.6mm  
Package includes:  
1pc AC USB adaptor  
1pc USB to 30-pin cable (1m)  
Packing: Individual clamshell blister  
#To buy adaptor solely,  
the model no. is MW USBU



MFi-100



Made for  
iPhone | iPod



MFi-601

W/ Fixed Cable



## MFi-002

**Tiny 1.0Amp AC Power Set (UK version)**  
ErP 2nd stage compliance  
CEC efficiency: Level ①  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 47.8 x 44 x 48mm  
Package includes:  
1pc AC USB adaptor  
1pc USB to 30-pin cable (1m)  
Packing: Individual clamshell blister  
#To buy adaptor solely, the model no. is MW UKUSB



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MFi-100



## MFi-003

**1.0Amp AC Power Set with 4 Changeable Input Plugs**  
ErP 2nd stage compliance  
CEC efficiency: Level ①  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 75 x 46 x 36.6mm  
Package includes: 1pc AC USB adaptor  
1pc USB to 30-pin cable (1m)  
Packing: Individual clamshell blister  
#To buy adaptor solely, the model no. is MW 3MU1HT



MFi-100



HTUK

HTAF

HTSAA

HTU



MFi-602

W/ Fixed Cable



Below items are the MFi series. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

## MFi-671

**Tiny 1.0Amp DC Power Converter**

Input Voltage: 12-13.8V DC  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 63.5 x 20 x 15mm  
Packing: Individual clamshell blister



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## MFi-303

**1.0Amp DC Power Set w/ Cigarette Lighter Socket**

Input Voltage: 12V DC  
USB Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Cigarette Lighter Socket Output: 12V DC  
Cigarette Lighter Socket Current:  
5A (with 10A fuse)  
Dimension: 106.1mm x 52mm x 33mm  
Package includes: 1pc DC USB car converter  
1pc USB cable  
Packing: Individual clamshell blister  
\*To buy car converter solely,  
the model no. is MW 3392



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MFi-100



## MFi-305

**Tiny 1.0Amp DC Power Set**

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA (max)  
Dimension: 48.3 x 20 x 32mm  
Package includes: 1pc DC USB car converter  
1pc USB cable  
Packing: Individual clamshell blister  
\*To buy car converter solely,  
the model no. is MW 3393



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MFi-100





Below items are the MFi series. All products in this series are officially approved by Apple Inc. with the license "Made for iPod/ iPhone/ iPad".

## MFi-301

### Tiny 1.0Amp DC Power Set

Input Voltage: 12-24V DC  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA (max)  
Dimension: 20 x 62.5mm  
Package includes:  
1pc DC USB car converter  
1pc USB to 30-pin cable (1m)  
Packing: Individual clamshell blister  
#To buy car converter solely,  
the model no. is MW 3391



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## MFi-005

### 2 x 1.0Amp AC Power Set

ErP 2nd stage compliance  
CEC efficiency: Level V  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA x 2  
Dimension: 75 x 46 x 73.8mm  
Package includes: 1pc AC USB adaptor  
1pc USB to 30-pin cable (1m)  
Packing: Individual clamshell blister  
#To buy adaptor solely, the model no. is MW 6FU2GS



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iPhone | iPod



W/ 4 Changeable Plugs



MFi-100

## MFi-302

### 2 x 1.0Amp DC Power Set

Input Voltage: 12-13.8V DC  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA x 2  
Dimension: 100 x 40 x 25mm  
Package includes:  
1pc DC USB car converter  
1pc USB to 30-pin cable (1m)  
Packing: Individual clamshell blister  
#To buy car converter solely,  
the model no. is MW 9U2



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MFi-100



# Notebook Power

## Advantages of Minwa's AUTO SEARCH power adaptor:

- No specify tips are needed. Using the same tips as our existing manual version. Good for merchandize and inventory control.
- Highly reduce the return rate.
- Convenient to end users, simply plug and play.
- Intelligent Auto Scanning function: Scanning starts from 15V, the voltage from the adaptor will not go over the actual need of the computer, no chance to over-voltage your computer.
- Learning users' behavior: Memorized the voltage need of notebook computer, user friendly.
- Environmental friendly: high energy efficiency and LED will go off to reduce energy consumption when the notebook computer is in sleep mode.

## In AUTO SEARCH MODE:

1. Search the voltage need of notebook computer:

⬇️ → ⬇️ → ⬇️ → ⬇️ → 15 sec → ⬇️ → search done, charging

2. When the notebook computer is in sleep mode:

⬇️ → ⬇️ → LED off, but it's still charging

3. When the notebook computer reactivate:

⬇️ → ⬇️ → ⬇️ → search done, charging

4. Erase the voltage memory from the notebook adaptor:

Detach the adaptor from AC mains for a minute → ⬇️ → ⬆️ → ⬆️  
→ voltage memory is erased → ready to connect another notebook computer with different voltage.

## In MANUAL MODE (15V - 19.5V):

1. Select the voltage need of notebook computer:

⬆️ → charging

2. When the notebook computer is in sleep mode:

⬆️ → ⬆️ → LED off, but it's still charging

3. When the notebook computer reactivate:

⬆️ → ⬆️ → charging

Auto Search — P.22

90W AC Power — P.22,23,26,28

70W AC Power — P.22,25,28,29

Macbook Power — P.27

DC Power — P.30-32

Cable Cord — P.32

Notebook Tips — P.33-34



MW 2111AGS & MW 2118AGS are our newest Auto Search series. Please go to p.21 to learn about auto search. This technology is under patent protection.

## MW 2111AGS



Compact 90W Notebook Power w/ Auto Search Function

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V



Input voltage: 100-240V AC, 60/50Hz

Output voltage (auto search): 15-19.5V DC

Output voltage (manual switch): 15-16 / 19.5 V DC

Output current: 4.62A

Output plug: ML (fixed at the cable end) & 5LMC (MAA, MAB, ME, MH, MJ)

LED indication: Blue LED for auto search

Green LED for manual switch

Dimension: 118 x 55 x 32mm

Packing: Individual clamshell blister

Please go to p.33 for more tips' option



Voltage switch



## MW 2118AGS



Compact 70W Notebook Power Adaptor w/ Auto Search Function

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V



Input voltage: 100-240V AC, 60/50Hz

Output voltage (auto search): 15-19.5V DC

Output voltage (manual switch): 15-16 / 19.5 V DC

Output current: 3.6A

Output plug: ML (fixed at the cable end) & 5LMC (MAA, MAB, ME, MH, MJ)

LED indication: Blue LED for auto search

Green LED for manual switch

Dimension: 112 x 49 x 30mm

Packing: Individual clamshell blister

Please go to p.33 for more tips' option



Voltage switch



Below are our All-New designed plug in mini notebook power series. It makes traveling so much more convenient.

## MW NAS190



All-New 90W single Voltage Desktop Notebook Power

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 50/60Hz

Output voltage: 19V

Output current: 4.73A (max)

Output plug: 6LMC4 (MAM + MT

+ MJJ + MOO + MGG + MZ)

LED indication: Power LED Blue

Dimension: 120 x 61 x 33mm

Packing: Individual clamshell blister

Please go to p.33 for more tips' option



## MW NAS112



All-New 120W Single Voltage Desktop Notebook Power

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 50/60Hz

Output voltage: 19V DC

Output current: 6.3A (max)

Output plug: 6LMC4 (MAM + MT

+ MJJ + MOO + MGG + MZ)

LED indication: Power LED Blue

Dimension: 138 x 62 x 36mm

Packing: Individual clamshell blister

Please go to p.33 for more tips' option



## MW NA290



New Style 90W Notebook Power w/ 2 USB Outlets

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage: 15-16 / 19.5 V DC

Output current: 4.62A

Output current (with USB loading): 4.0A

USB output: 5V DC

USB output current: 2.4A shared by 2

Output plug: ML (fixed at the cable end) & 5LMC (MAA, MAB, ME, MH, MJ)

LED indication: Blue Power LED

Dimension: 128 x 61 x 33mm

Packing: Individual clamshell blister

Please go to p.33 for more tips' option



USB outlet



Voltage switch



Below are our Newly designed plug in mini notebook power series. To have a Notebook Power Adaptor with up to 180W, it is sufficiently support your notebook to output high quality of animation, enhance your gaming experience.

## MW NA270



New Style 70W Notebook Power w/ 2 USB Outlets

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage: 15-16 / 19.5 V DC

Output current: 3.6A

Output current (with USB loading): 2.97A

USB output: 5V DC

USB output current: 2.4A shared by 2

Output plug: ML (fixed at the cable end)

& 5LMC (MAA, MAB, ME, MH, MJ)

LED indication: Blue Power LED

Dimension: 122.7 x 54.5 x 33mm

Packing: Individual clamshell blister

Please go to p.33 for more tips' option



USB outlet



Voltage switch



## MW NA2120



New Style 120W Notebook Power w/ Auto Tips

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 50/60Hz

Output voltage: 15/ 16/ 19V DC

\*Select different tips to adjust output voltage

Please select tips from p.25

Output current: 6.0A

Output plug: MC (fixed at the cable end, 19V)

& 11LAC (AAM9, ANU9, AQ5, AT9, AGG9,

AJJ9, ALL6, ALL9, AKK9, AMM6, AMM9)

LED indication: Power LED Blue

Dimension: 146.2 x 62 x 36mm

Packing: Individual clamshell blister



EU version US version UK version SAA version



## MW GA180W



180W Notebook Power for Gaming Specialist

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 50/60Hz

Output Voltage: 15/ 16/ 19.5V DC

Output Current: 9.2A (max)

Output Plug:

Output Plug: ML (fixed at the cable end)

& 5LMC (MAA, MAB, ME, MH, MJ)

LED indication: Power LED Blue

Dimension: 172.2 x 76.6 x 34mm

Packing: Individual clamshell blister

Please go to p.33 for more tips' option



New



## Auto Tips

Model	Dimension	Image	2D Diagram	Brand(s)	Available voltage
AAD6, AAD9	6.5X1.4/ 10			Sony VAIO TZ series/ Samsung/ Fujitsu/ Dell	16V, 19V
AK6, AK9	7.4X5.4/ 13			HP notebook	16V, 19V
AAM9	7.4X5.1/ 12			Dell	19V
AAO9	7.9X5.6/ 12			IBM	19V
AE9	2.5X0.75/ 9			Asus (netbook)/ Samsung XE363	16V, 19V
AG6, AG9	2.5X5.5/ 12			Gigatech/ IBM/ BenQ Joybook Lite	16V, 19V
ANU9	5.0X3.4/ 12			Samsung	19V
AQ5, AQ9	6.3X3.0/ 10			Toshiba/ NEC/ IBM	15V, 19V
AT9	4.75X1.75/ 10.5			Compaq	19V
AZ6, AZ9	4.0X1.2/ 9.7			Asus Zenbook	16V, 19V
ADD6, ADD9	3.0X1.1/ 8			Asus UX31 Ultrabook/ Acer C720	16V, 19V
AGG9	7/12.5 (square)			Lenovo	19V
AJJ9	5.5X1.75/ 13			Acer	19V
ALL6, ALL9	5.5X2.5/ 13			Toshiba CB30	16V, 19V
AKK6, AKK9	4.5X3.0/ 12			HP Chromebook 14	16V, 19V
AMM6, AMM9	6.5X1.4/ 14			Sony VAIO TZ series/ Samsung/ Fujitsu/ Dell	16V, 19V



## MW 2113GS



Ultra Slim 90W Notebook Power Adaptor w/ USB Outlet

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz  
Output voltage: 15 / 16 / 19.5 V DC  
Output current: 4.62A  
Output current (with USB loading): 4.0A  
USB output current: 5V DC/ 2.1A  
Output plug:  
ML (fixed at the cable end) & 5LMC  
(MAA, MAB, ME, MH, MJ)  
LED indication: Blue Power LED  
Dimension: 120 x 66 x 17.6mm  
Packing: Individual clamshell blister



## MW 2116GS



Ultra Slim 70W Notebook Power w/ USB Outlet

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz  
Output voltage: 15 / 16 / 19.5 V DC  
Output current: 3.6A  
Output current (with USB loading): 3.3A  
USB output current: 5V DC/ 1.0A  
Output plug:  
ML (fixed at the cable end) & 5LMC  
(MAA, MAB, ME, MH, MJ)  
LED indication: Blue Power LED  
Dimension: 118.5 x 55 x 14.6mm  
Packing: Individual clamshell blister



## MW 2111GS



Compact 90W SMPS for Netbook Computer

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz  
Output voltage: 15 / 16 / 19.5 V DC  
Output current:  
15 / 16 / 19.5 V DC, 4.62A  
Output plug:  
ML (fixed at the cable end) & 5LMC  
(MAA, MAB, ME, MH, MJ)  
LED indication: Blue Power LED  
Dimension: 118 x 55 x 32mm  
Packing: Individual clamshell blister



## MW 2118GS



Compact 70W Notebook Power Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz  
Output voltage: 15/ 16 / 19.5 V DC  
Output current: 3.6A  
Output plug:  
ML (fixed at the cable end) & 5LMC  
(MAA, MAB, ME, MH, MJ)  
LED indication: Blue Power LED  
Dimension: 112 x 49 x 30mm  
Packing: Individual clamshell blister



## MW PD60C



Power Delivery/QC3.0 60W 2 in 1 Speedy Type-C Charger

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V DC  
Output current:  
PD: 5V, 9V, 15V, 20V@3A  
QC3.0:  
3.6V-6.5V/3A; 6.5V-9V/2.7A; 9V-12V/1.5A  
Dimension: 97 x 41 x 80 mm  
Packing: Individual color giftbox  
Option: Product stand  
Pls go to p.73-75 for type-C cable options.



EU version, US version,  
UK version & SAA version available



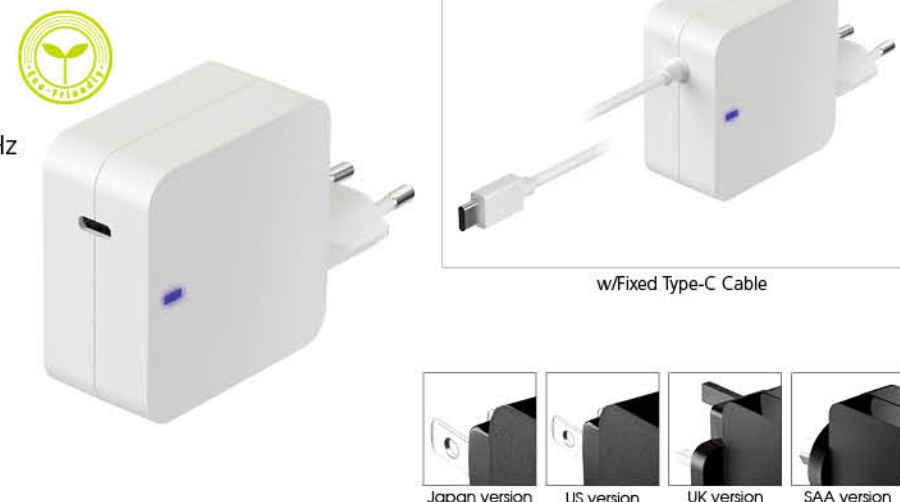
## MW MAC45C



45W Speedy USB Type-C Charger

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz  
Output voltage: 5V, 9V, 12V,  
15V & 20V DC  
Output current: 5.0V/9V/12V @3A  
15V/20V @2.25A  
LED indication: Power LED Blue  
Dimension: 105.9 x 34.7 x 60.5mm  
Packing: Individual clamshell blister





## MW A2103GS

120W SMPS for Notebook Computer

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage: 15/ 16/ 18/ 19/ 20/ 22/ 24V AC

Output current:

- 15/ 16/ 18/ 19/ 20V DC, 6.0A
- 22/ 24V DC, 5.0A

Output plug: 6LMC

LED indication: Power LED

Dimension: 148 x 65 x 36mm

Packing: Individual clamshell blister

Optional: Add-on additional USB outlets

Ordering code: **MW A2103GS/F2USB**

Output current (with USB output):

- 15/ 16/ 18/ 19/ 20V DC, 5.75A
- 22/ 24V DC, 4.79A

USB output current: 1000mA

(max. for 2 outlets use simultaneously)



## MW 2108GS

90W SMPS for Notebook Computer w/ USB Outlet

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage: 15/ 16/ 18/ 19/ 20/ 22/ 24V DC

Output current:

- 15/ 16/ 18/ 19/ 20/ 22V DC, 4.0A
- 24V DC, 3.75A

Output plug: 6LMC

LED indication: Power LED

Dimension: 134 x 56 x 32.8mm

Packing: Individual clamshell blister

Optional: Add-on additional USB outlets

Ordering code: **MW 2108GS/F2USB**

Output current (with USB output):

- 15/ 16/ 18/ 19/ 20/ 22V DC, 3.8A
- 24V DC, 3.54A

USB output current: 1000mA

(max. for 2 outlets use simultaneously)



## MW 2110GS

70W SMPS for Netbook Computer

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage: 15/ 16/ 19.5 V DC

Output current:

- 15/ 16/ 19.5 V DC, 3.6A
- Output plug: 6LMC1

LED indication: Power LED

Dimension: 112 x 49 x 30mm

Packing: Individual clamshell blister

Optional: Add-on additional USB output

Ordering code: **MW MW 2110GS/F2USB**

Output current (with USB output):

- 15/ 16/ 19.5V DC, 3.3A
- USB output current: 1000mA

(max. for 2 outlets using simultaneously)

Optional: Add-on additional USB outlets

Ordering code: **MW 2110GS/F2USB**

Output current (with USB output):

- 9.5/ 12/ 16/ 18.5/ 19/ 20V DC, 3.25A
- 24 V DC, 2.79A

USB output current: 1000mA

(max. for 2 outlets use simultaneously)



## MW A2102GS

72W SMPS for Notebook & Netbook Computer

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage: 9.5/ 12/ 16/ 18.5/ 19/ 20/ 24V DC

Output current:

- 9.5/ 12/ 16/ 18.5/ 19/ 20V DC, 3.5A
- 24 V DC, 3.0A

Output plug: 9LMC

LED indication: Power LED

Dimension: 134 x 56 x 32.8mm

Packing: Individual clamshell blister

Optional: Add-on additional USB outlets

Ordering code: **MW A2102GS/F2USB**

Output current (with USB output):

- 9.5/ 12/ 16/ 18.5/ 19/ 20V DC, 3.25A
- 24 V DC, 2.79A

USB output current: 1000mA

(max. for 2 outlets use simultaneously)



## MW 2107GS

65W SMPS for Netbook Computer

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage:

9.5/ 12/ 14/ 16/ 18.5/ 19/ 20V DC

Output current:

- 9.5/ 12/ 14/ 16/ 18.5V DC, 3.5A
- 19V DC, 3.4A
- 20V DC, 3.25A

Output plug: 9LMC

LED indication: Power LED

Dimension: 112 x 49 x 30mm

Packing: Individual clamshell blister

Optional: Add-on additional USB outlets

Ordering code: **MW 2107GS/F2USB**

Output current (with USB output):

- 9.5/ 12/ 14/ 16/ 18.5V DC, 3.25A
- 19V DC, 3.15A
- 20V DC, 3.0A

USB output current: 1000mA

(max. for 2 outlets use simultaneously)



## MW 2109GS

48W SMPS for Netbook Computer

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Output voltage:

9.5/ 12/ 14/ 16/ 18.5/ 19/ 20V DC

Output current:

- 9.5/ 12/ 14/ 16V DC, 3.0A
- 18.5/ 19V DC, 2.5A
- 20V DC, 2.4A

Output plug: 9LMC

Dimension: 75 x 49 x 31mm

Packing: Individual clamshell blister

Optional: Add-on additional USB outlets

Ordering code: **MW 2109GS/F2USB**

Output current (with USB output):

- 9.5/ 12/ 14/ 16V DC, 2.7A
- 18.5/ 19V DC, 2.3A
- 20V DC, 2.2A

USB output current: 1000mA

(max. for 2 outlets use simultaneously)





## MW 2877

### 65W DC/DC Converter for Netbook Computer

Input voltage: 12-13.8V DC  
 Output voltage: 9.5 / 12 / 14 / 16 / 18.5 / 19 / 20V DC  
 Output current: 9.5 / 12 / 14 / 16 / 18.5V DC, 3.5A  
 19V DC, 3.4A  
 20V DC, 3.25A  
 ✓ Over-current protection  
 ✓ Over voltage protection  
 ✓ Short circuit protection  
 Output plug: 6LMC  
 LED indication: Power LED  
 Dimension: 112 x 48 x 30mm  
 Packing: Individual clamshell blister



## MW 2875

### 36W DC/DC Converter for Netbook Computer w/ USB Outlet

Input voltage: 12-13.8V DC  
 Output voltage: 3.0 / 4.5 / 5.0 / 6.0 / 7.5 / 9.5 / 12.0V DC  
 Output current: 3A (max.)  
 USB output: 5V DC / 1A  
 ✓ Over-current protection  
 ✓ Short circuit protection  
 ✓ Overload protection  
 Output plug: 6LMC1  
 LED indication: Power LED  
 Dimension: 76.2 x 80 x 33mm  
 Packing: Individual clamshell blister



## MW U2872

### 72W DC/DC Converter for Notebook Computer w/ USB Outlet

Input voltage: 12V DC, 8A  
 Output voltage: 15/ 16/ 18/ 19/ 20/ 22/ 24V DC  
 Output current: 15/ 16/ 18V DC, 4.0A  
 19/ 20/ 22/ 24V DC, 3.0A  
 USB output: 5V DC / 1A  
 ✓ Over-current protection  
 ✓ Input low voltage protection (automatic recovery)  
 ✓ Short circuit protection  
 ✓ Over temperature protection  
 Output plug: 6LMC  
 Dimension: 100 x 46 x 30 mm  
 Packing: Individual clamshell blister

LED indication:

Status	LED indication
Power ON	Red
Power OFF	Off
Output short circuit	Red off/ Red flash



## MW 2872

### 72W DC/DC Converter for Notebook Computer

Input voltage: 12V DC, 8A  
 Output voltage: 15/ 16/ 18/ 19/ 20/ 22/ 24V DC  
 Output current: 15/ 16/ 18V DC, 4.0A  
 19/ 20/ 22/ 24V DC, 3.0A  
 ✓ Over-current protection  
 ✓ Input low voltage protection (automatic recovery)  
 ✓ Short circuit protection  
 ✓ Over temperature protection  
 Output plug: 6LMC  
 Dimension: 100 x 46 x 30mm  
 Packing: Individual clamshell blister  
 LED indication:

Status	LED indication
Power ON	Red
Power OFF	Off
Output short circuit	Red off/ Red flash



## MW U2873

### 120W DC/DC Converter for Notebook Computer w/ USB Outlet

Input voltage: 12V DC, 12A  
 Output voltage: 15/ 16/ 18/ 19/ 20V DC, 6A  
 22/ 24V DC, 5A  
 Output current: 6A (max.)  
 USB output: 5V DC / 1A  
 ✓ Over-current protection  
 ✓ Input low voltage protection (automatic recovery)  
 ✓ Short circuit protection  
 ✓ Over temperature protection  
 Output plug: 6LMC  
 Dimension: 116 x 52 x 31mm  
 Packing: Individual clamshell blister  
 LED indication:

Status	LED indication
Power ON	Red
Power OFF	Off
Output short circuit	Red off/ Red flash



## MW 2873

### 120W DC/DC Converter for Notebook Computer

Input voltage: 12V DC, 12A  
 Output voltage: 15/ 16/ 18/ 19/ 20V DC, 6A  
 22/ 24V DC, 5A  
 Output current: 6A (max.)  
 ✓ Over-current protection  
 ✓ Input low voltage protection (automatic recovery)  
 ✓ Short circuit protection  
 ✓ Over temperature protection  
 Output plug: 6LMC  
 Dimension: 116 x 52 x 31mm  
 Packing: Individual clamshell blister  
 LED indication:

Status	LED indication
Power ON	Red
Power OFF	Off
Output short circuit	Red off/ Red flash





MW SEJT is an AC plug set with SE type output plug which is widely apply to notebook power supply. The changeable input plug set carries international approvals that you can trust in. MW SEFR is a plug converter with SE type input plug which is widely apply to notebook power supply. It splits one AC power source to 3 that allows to apply 3 electronic devices at the same time.

## MW SEJT

### AC Plug Set with 4 Changeable Input Cables

This AC plug set with SE type output plug which is widely apply to notebook power supply. The changeable input plug set carries international approvals that you can trust in.

Input cable: 1) SEU

2) SEUK

3) SEAF

4) SESAA

Connecting cable: SE socket to SE plug (1.5m)

Packing: Individual clamshell blister



## MW SEFR

### Plug Converter

SE type plug

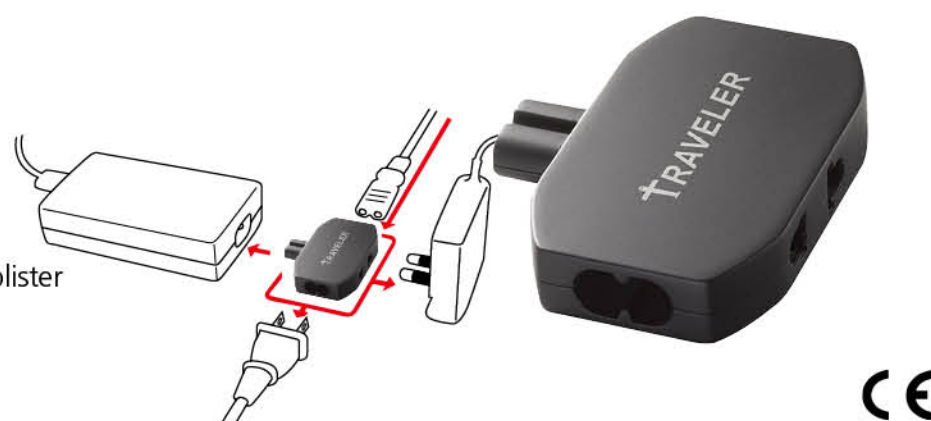
To One SE socket,

Two U plug/ AF plug sockets

Dimension:

66.86 x 54.52 x 12.3mm

Packing: Individual clamshell blister



## MW SEHT

### AC Plug Set with 4 Changeable Input Plugs

This AC plug set with SE type output plug which is widely apply to notebook power supply. The changeable input plug set carries international approvals that you can trust in.

Input plug: 4 changeable input plugs

(U, UK, SAA & AF)

Output plug: SE type

Dimension: 66 x 48.6 x 19.2mm

Packing: Individual clamshell blister



## Notebook Tips

Ordering code	Image	Diagram	Dimension	Brand(s)	9LMC	6LMC	6LMC1	5LMC
MAA			6.5 x 1.0/ 12	Dell/ Samsung/ Sony/ Fujitsu/ Dell	✓	✓	✓	✓
MAB			5.5 x 1.75/ 12	Compaq/ Gateway/ HP/ Sharp/ Winbook		✓		✓
MAD			6.5 x 1.4/ 10	Sony VAIO TZ series/ Samsung/ Fujitsu/ Dell	✓			
MAE			6.5 x 3.0/ 10	Toshiba				
MAK			7.4 x 5.1/ 13	HP notebook	✓			
MAM			7.4 x 5.1/ 12	Dell				
MAO			7.9 x 5.6/ 12	IBM				
MAP			9.12 x 6.3/ 9	IBM				
MAQ			5.5 x 1.9/ 12	Acer				
MC			5.3 x 1.7/ 12	Acer				
MCC			5.5 x 2.0/ 12	Acer Aspire One 522			✓	
MDD			3.0 x 1.1/ 8	Asus UX31 Ultrabook/ Acer C720				
ME			5.5 x 2.1/ 12	HP/ Compaq/ NEC/ Toshiba/ Lenovo	✓	✓		✓
MEE			2.5 x 0.75/ 9	ASUS (netbook)/ Samsung XE363			✓	
MF			5.0 x 2.5/ 10	Asus EEE PC	✓			
MF04AJ			7.1/9.5	Dell				
MFF			4.5 x 3.0	Dell XPS 13				
MG			5.5 x 2.5/ 12	Gigatech/ IBM/ BenQ Joybook Lite	✓	✓		



## Notebook Tips

Ordering code	Image	Diagram	Dimension	Brand(s)	9LMC	6LMC	6LMC1	5LMC
MGG			7/12.5	Lenovo				
MH			3.5 x 1.35/ 10	Sharp/ Dell		✓		✓
MHH			4.8 x 1.7 x 10	HP Pavilion				
MJ			4.75 x 1.75/ 13	LGX series/ HP mini110/ Compaq/ Asus	✓	✓	✓	✓
MJJ			5.5 x 1.8/ 13	Acer				
MKK			4.5 x 3.0/ 12	HP Chromebook 14				
ML			5.5 x 2.5/ 12.5	LG X series	✓			
MLL			5.5 x 2.5/ 13	Toshiba CB30				
MM			5.5 x 3.4/ 10	Samsung	✓		✓	
MMM			6.5 x 4.4/ 13.4	Sony VAIO TZ series/ Samsung/ Fujitsu/ Dell				
MNT			5.5 x 2.0/ 10.5	HP/ Compaq				
MNU			5.0 x 3.4/ 12	Samsung				
MNV			4.8 x 1.7/ 9.5	LG/ Delta/ Acer/ Asus/ HP/ NEC/ Compaq			✓	
MNX			4.0 x 1.7/ 11.5	Compaq mini				
MQ			6.3 x 3.0/ 10	Toshiba/ NEC/ IBM				
MT			4.75 x 1.75/ 10	Compaq				
MU			4.0 x 1.2/ 9.7	Asus Zenbook (UX32A)				
MZ			4.0 x 1.2/ 9.7	Asus Zenbook				
MNN			4.75 x 1.75/ 10	HP Pavilion Sleekbook				

# USB Power AC

Notes:

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Quick Charger 2.0 & 3.0 — P.36-48

Multi-Port USB Charger — P.37-47



Below USB series is our newly designed high speed QC4+&PD3.0 USB and Type-C home chargers. This is a complete solution for all your portable devices.

## MW CA15W

15W AC/ DC w/ Type-C Outlet USB Charger

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 3A (Shared by 3)  
Output:  
1 x typeC  
2 x typeA  
LED indication: Power LED Blue  
Dimension: 97.5 x 27.5 x 52mm  
Packing: Individual clamshell blister



Japan version, US version,  
UK version & SAA version available



## MW PD15A

Power Delivery3.0 —15W AC/ DC Type-C USB Charger

ErP 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V  
Output voltage: 5.0V DC  
Output current: 5V/2.4A  
15V/1.0A  
LED indication: Power LED Blue  
Dimension: 52x 45 x 32 mm

**New**



EU version, US version,  
UK version & SAA version available



## iBz-PD29AC

Power Delivery3.0/QC4 - 29W  
2 in 1 Type-C USB chargers for iPhone

ErP 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V  
Output current:  
PD: 14.5V/2.0A; 5V/2.4A  
QC4.0: 3.6V-6.5V/3A;  
6.5V-9V/2A; 9V-12V/1.5A  
LED indication: Power LED Blue  
Dimension: 97.5 x 27.5 x 51mm  
Packing: Individual clamshell blister

**New**



EU version, US version,  
UK version & SAA version available



## MW CA40W

Type-C Outlet—40W AC/ DC USB Charger

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 8A (Shared by 5)  
Output:  
1 x Type C  
4 x Type A  
LED indication: Power LED Blue  
Dimension: 60 x 30 x 68mm  
Packing: Individual Color Giftbox



EU version, US version,  
UK version & SAA version available



## MW PD40A

Power Delivery3.0/QC4 —  
40W AC/ DC Type-C USB Charger

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V  
Channel 1 (Type-C):  
PD: 14.5V/2.0A; 5V/2.4A  
QC4.0: 3.6V-6.5V/3A;  
6.5V-9V/2.0A;  
9V-12V/1.5A  
Channel 2 (Type-A):  
2A Shared by 2  
LED indication: Power LED Blue  
Dimension: 60 x 30 x 68mm  
Packing: Individual clamshell blister

**New**



EU version, US version,  
UK version & SAA version available



## MW CA65W

65W Speedy USB Type-C Charger

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Channel 1 (Type-C):  
5.0V/9V/12V @3A  
15V/20V @2.25A  
Channel 2 (USB A):  
4A Shared by 5  
LED indication: Power LED Blue  
Dimension: 60 x 30 x 68mm  
Packing: Individual Color Giftbox  
Option: Product Stand



EU version, US version,  
UK version & SAA version available





## MW QA20W

Quick Charge 3.0 —20W AC/ DC USB Charger

Erp 2nd stage compliance

CEC efficiency: Level VI

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Channel 1 Quick Charge:

3.6V-6.5V/3.0A;

6.5V-9V/2.0A;

9V-12V/1.5A

LED indication: Power LED Green

Dimension: 86 x 27.5 x 51mm

Packing: Individual clamshell blister



Japan version, US version,  
UK version & SAA version available



Qualcomm  
Quick Charge 3.0  
compatible

## MW QA36W

Quick Charge 3.0 36W AC/ DC USB Charger

Erp 2nd stage compliance

CEC efficiency: Level VI

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Quick Charge

(When only 1 channel is connected):

3.6V-6.5V/3A; 6.5V-9V/2.5A; 9V-12V/2A

Normal Charge

(When more than 1 channel is connected):

5V/3.4A (shared by 4)

LED indication: Power LED Green

Dimension: 60 x 30 x 68mm

Packing: Individual Color Giftbox

Option: Product Stand

New



Japan version, US version,  
UK version & SAA version available



Qualcomm  
Quick Charge 3.0  
compatible

## MW QA20C

Quick Charge 3.0 —20W AC/ DC  
Type-C USB Charger

Erp 2nd stage compliance

CEC efficiency: Level VI

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Output current (Quick Charge3.0):

3.6V-6.5V/3.0A; 6.5V-9V/2.0A;

9V-12V/1.5A

LED indication: Power LED Green

Dimension: 86 x 27.5 x 51mm

Packing: Individual clamshell blister

New



Japan version, US version,  
UK version & SAA version available



Qualcomm  
Quick Charge 3.0  
compatible

## MW QA20A

Quick Charge 3.0 AC/ DC  
USB Charger w/ 2 USB ports

Erp 2nd stage compliance

CEC efficiency: Level VI

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC/4A

Quick Charge: 3.6V-6.5V/3.0A;

6.5V-9V/2.0A; 9V-12V/1.5A

Normal Charge: 5V/4A (shared by 3)

LED indication: Power LED Green

Dimension: 86 x 27.5 x 51mm

Packing: Individual Color Giftbox

New



Japan version, US version,  
UK version & SAA version available



Qualcomm  
Quick Charge 3.0  
compatible

The below USB product is our newly designed all in one home chargers with both Power Delivery and Qualcomm Quick Charge (QC3.0). This is a complete solution for all your portable devices.

## MW QA40W

Quick Charge 3.0 —40W AC/ DC USB Desktop Charger

Erp 2nd stage compliance

CEC efficiency: Level VI

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Channel 1 (Quick Charge):

3.6V-6.5V/3.0A;

6.5V-9V/2.0A;

9V-12V/1.5A

Channel 2 (Normal Charge):

4.1A (Shared by 4)

LED indication: Power LED Green

Dimension: 60 x 30 x 68mm

Packing: Individual Color Giftbox

Option: Product Stand



EU version, US version,  
UK version & SAA version available



Qualcomm  
Quick Charge 3.0  
compatible

## MW QA65W

Quick Charge 3.0 —65W AC/ DC USB Desktop Station

Erp 2nd stage compliance

CEC efficiency: Level VI

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Channel 1 (Quick Charge):

3.6V-6.5V/3.0A;

6.5V-9V/2.0A;

9V-12V/1.5A

Channel 2 (Normal Charge):

9.1A (Shared by 5)

LED indication: Power LED Green

Dimension: 97 x 41 x 80mm

Packing: Individual Color Giftbox

Option: Product Stand



EU version, US version,  
UK version & SAA version available



Qualcomm  
Quick Charge 3.0  
compatible

## MW PDQ60A

Power Delivery 3.0 & Quick Charge 4  
3.0 AC/DC Type-C USB Charger w/ 3 USB ports

Erp 2nd stage compliance

CEC efficiency: Level VI

MEPS: V

Input voltage: 100-240V DC

Output current:

Type-C Outlet 1

PD: 14.5V/2A; 5V/2.4A

QC 4: 3.6V-6.5V/3A;

6.5V-9V/2A;

9V-12V/1.5A (max)

Type-A & Type-C Outlet (2-5):

5V/6.0A (Shared by 4)

LED indication: Power LED Blue

Dimension: 97 x 41 x 80 mm

Packing: Individual Color Giftbox

Option: Product Stand



EU version, US version,  
UK version & SAA version available



Qualcomm  
Quick Charge 4  
compatible



Below the new series is Energy VI compliance.

## MW A8UA84

New-in 8.4A USB Charging Station with 8-Ports & Auto Detection  
For Apple, Samsung & Other Mobile Devices

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC x 8  
Auto detect channels: a1, a2  
Normal channels: i1-i6  
Output current: 8.4A shared by 8  
LED indication: Power LED Green(Auto)  
Power LED White(Apple)  
Dimension: 98 x 71 x 34mm  
Packing: Individual clamshell blister



## MW 8UA84

New-in 8.4A USB Charging Station with 8-Ports  
For Apple, Samsung & Other Mobile Devices

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC x 8  
Output current: 8.4A shared by 8  
LED indication: Power LED White(Apple)  
Dimension: 98 x 71 x 34mm  
Packing: Individual clamshell blister



## MW A6UA64

New-in 6.4A USB Charging Station with 6-Ports & Auto Detection  
For Apple, Samsung & Other Mobile Devices

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC x 6  
Auto detect channels: a1, a2  
Normal channels: i1-i4  
Output current: 6.4A shared by 6  
LED indication: Power LED Green(Auto)  
Power LED White(Apple)  
Dimension: 95 x 64 x 34mm  
Packing: Individual clamshell blister



## MW 6UA64

New-in 6.4A USB Charging Station with 6-Ports  
For Apple, Samsung & Other Mobile Devices

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC x 6  
Output channels: 6 ports  
Output current: 6.4A shared by 6  
LED indication: Power LED White(Apple)  
Dimension: 95 x 64 x 34mm  
Packing: Individual clamshell blister



## MW 4UA48EU

4.8A AC/ DC USB Charger with 4 USB Outlets

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: VI

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 4.8A shared by 4  
LED indication:  
Power LED Blue  
Dimension: 70 x 30 x 91mm  
Packing: Individual clamshell blister



## MW 4UA48EHT

4.8A AC/ DC USB Charger with 4 USB Outlets  
With 4 Chargeable Input Plugs

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 4.8A shared by 4  
LED indication:  
Power LED Blue  
Package includes: U, UK, SAA & AF plugs  
Dimension: 70 x 30 x 91mm  
Packing: Individual color giftbox



## MW 2UA48EU

4.8A AC/ DC USB Charger with 2 USB Outlets

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 4.8A (shared by 2)  
LED indication:  
Power LED Blue  
Dimension: 70 x 30 x 91mm  
Packing: Individual clamshell blister



## MW 2UA48EHT

4.8A AC/ DC USB Charger with 2 USB Outlets  
With 4 Chargeable Input Plugs

Erp 2nd stage compliance  
CEC efficiency: Level VI  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 4.8A (shared by 2)  
LED indication:  
Power LED Blue  
Package includes: U, UK, SAA & AF plugs  
Dimension: 70 x 30 x 91mm  
Packing: Individual color giftbox



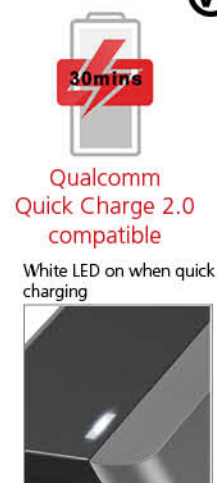


## MW 2QA34EU

Quick Charge 2.0--3.4A AC/ DC USB Charger with 2 USB Outlets

Erp 2nd stage compliance  
CEC efficiency: Level Ⅷ  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Quick charge: 9V/ 2.0A; 12V/1.6A  
Normal charge: 5V/3.4A (shared by 2)  
LED indication:  
Quick charge: LED White (QC2.0)  
Normal charge: LED Blue  
Reduce charge time up to 75% in 30mins\*  
Dimension: 67 x 57 x 32mm  
Packing: Individual clamshell blister  
\*Qualcomm standard, result may be varied



## MW 2QA34EHT

Quick Charge 2.0--3.4A AC/ DC USB Charger with 2 USB Outlets  
With 4 Changeable Input Plugs

Erp 2nd stage compliance  
CEC efficiency: Level Ⅷ  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Quick charge: 9V/ 2.0A; 12V/1.6A  
Normal charge: 5V/3.4A (shared by 2)  
LED indication:  
Quick charge: LED White (QC2.0)  
Normal charge: LED Blue  
Package includes: U, UK, SAA & AF plugs  
Reduce charge time up to 75% in 30mins\*  
Dimension: 67 x 57 x 32mm  
Packing: Individual color giftbox  
\*Qualcomm standard, result may be varied



## MW 3UA34EU

3.4A AC/ DC USB Charger with 3 USB Outlets

Erp 2nd stage compliance  
CEC efficiency: Level Ⅷ  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 3.4A shared by 3  
Dimension: 67 x 57 x 32mm  
Packing: Individual clamshell blister



## MW NAUA24EU

2.4A AC/ DC USB Charger

Erp 2nd stage compliance  
CEC efficiency: Level Ⅷ  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A (Auto detection)  
Dimension: 53 x 30 x 47.5mm  
Packing: Individual clamshell blister

New



## MW N2UA24EU

2.4A AC/ DC USB Charger w/ 2 USB ports

Erp 2nd stage compliance  
CEC efficiency: Level Ⅷ  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A (shared by 2)  
Dimension: 53 x 30 x 47.5mm  
Packing: Individual clamshell blister

New



## MW 2UA24EU

2.4A AC/ DC USB Charger with 2 USB Outlets

Erp 2nd stage compliance  
CEC efficiency: Level Ⅷ  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A shared by 2  
Dimension: 50.7 x 48.9 x 73.3mm  
Packing: Individual clamshell blister





## MW 2UA24EHT

2.4A AC/ DC USB Charger with 2 USB Outlets  
With 4 Changeable Input Plugs

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A shared by 2  
Package includes: U, UK, SAA & AF plugs  
Dimension: 55 x 56 x 36mm  
Packing: Individual color giftbox



## MW UA24EU

2.4A AC/ DC USB Charger

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A  
Dimension: 48.9 x 50.7 x 65.3mm  
Packing: Individual clamshell blister



## MW UA10EU

1.0A AC/ DC USB Charger

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 1.0A  
Dimension: 48.5 x 37.7 x 49.8mm  
Packing: Individual clamshell blister



MW UA10EHT



Below USB series is our newly launched USB home chargers. The models with an "A" means the items are incorporated with Intelligent Auto Scanning function to detect the USB setting. From now users no longer need to ask what mobile device setting. Both MW USB8 & MW USB6 are able to charge 8 devices at the same time.

## MW USB8

8 Charging Channels USB Charger with Auto Detection For Apple & Other Mobile Devices

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 19V DC  
Output voltage: 5.0V DC x 8  
a1, a2 (Auto detect): 2.4A x 2  
i1, i2 (Apple): 2.0A (total)  
i3, i4 (Apple): 2.0A (total)  
i5, i6 (Apple): 2.0A (total)  
LED indication:  
Power LED WHITE  
a1, a2 (Auto detect): Power LED GREEN  
i1, i2, i3, i4, i5 & i6 (Apple):  
Power LED WHITE  
Packed with: 70W AC/DC power adaptor  
(MW 2118 single voltage)  
Dimension: 112 x 49 x 30mm  
Packing: Individual color display box



Slide to open



Detachable lid



"easy to read" LED panel



Packed with:  
70W AC/DC adaptor



## MW USB8

8 Charging Channels USB Charger For Apple & Other Mobile Devices

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 19V DC  
Output voltage: 5.0V DC x 8  
i1, i2 (Apple): 2.0A (total)  
i3, i4 (Apple): 2.0A (total)  
i5, i6 (Apple): 2.0A (total)  
i7, i8 (Apple): 2.0A (total)  
LED indication:  
i1, i2, i3, i4, i5, i6, i7, i8 (Apple):  
Power LED WHITE  
Packed with: 70W AC/DC power adaptor  
(MW 2118 single voltage)  
Dimension: 112 x 49 x 30mm  
Packing: Individual color display box



Slide to open



Detachable lid



"easy to read" LED panel



Packed with:  
70W AC/DC adaptor



## MW USB6

6 Charging Channels USB Charger with Auto Detection For Apple & Other Mobile Devices

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 19V DC  
Output voltage: 5.0V DC x 6  
a1, a2 (Auto detect): 2.4A x 1, 1.0A x 1  
i1, i2 (Apple): 2.0A (total)  
i3, i4 (Apple): 2.0A (total)  
LED indication:  
a1, a2 (Auto detect): Power LED GREEN  
i1, i2, i3 & i4 (Apple): Power LED WHITE  
Packed with: 48W AC/DC power adaptor  
(MW 2109 single voltage)  
Dimension: 75 x 49 x 31mm  
Packing: Individual color display box



Slide to open



Detachable lid



"easy to read" LED panel



Packed with:  
48W AC/DC adaptor





Below USB series is our newly launched USB home chargers. The models with an "A" means the items are incorporated with Intelligent Auto Scanning function to detect the USB setting. From now users no longer need to ask what mobile device setting. Both MW USB8 & MW USB8 are able to charge 8 devices at the same time.

## MW USB6

6 Charging Channels USB Charger For Apple & Other Mobile Devices

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 19V DC

Output voltage: 5.0V DC x 6

i1 (Apple): 2.4A x 1

i2 (Apple): 1.0A x 1

i3, i4 (Apple): 2.0A (total)

i5, i6 (Apple): 2.0A (total)

LED indication:

i1, i2, i3, i4, i5 & i6 (Apple): Power LED WHITE

Packed with: 48W AC/DC power adaptor  
(MW 2109 single voltage)

Dimension: 75 x 49 x 31mm

Packing: Individual color display box



Packed with:  
48W AC/DC adaptor



Slide to open

"easy to read" LED panel

## MW USB4

4 Charging Channels USB Charger with Auto Detection  
For Apple & Other Mobile Devices

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 19V DC

Output voltage: 5.0V DC x 4

a1, a2 (Auto detect): 2.4A x 1, 1.0A x 1

i1, i2 (Apple): 2.0A (total)

LED indication:

a1, a2 (Auto detect): Power LED GREEN

i1, i2 (Apple): Power LED WHITE

Packed with: 36W AC/DC power adaptor  
(3H36 single voltage)

Dimension: 110 x 50 x 30mm

Packing: Individual color giftbox



Packed with:  
36W AC/DC adaptor



Slide to open

"easy to read" LED panel

## MW USB4

4 Charging Channels USB Charger For Apple & Other Mobile Devices

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 19V DC

Output voltage: 5.0V DC x 4

i1 (Apple): 2.4A x 1

i2 (Apple): 1.0A x 1

i3, i4 (Apple): 2.0A (total)

LED indication:

i1, i2, i3 & i4 (Apple): Power LED WHITE

Packed with: 36W AC/DC power adaptor  
(3H36 single voltage)

Dimension: 110 x 50 x 30mm

Packing: Individual color giftbox



Packed with:  
36W AC/DC adaptor



Slide to open

"easy to read" LED panel

## MW 4UA48U

4.8A AC/ DC USB Charger with 4 USB Outlets

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Output current: 4.8A shared by 4

LED indication:

Power LED Blue

Dimension: 70 x 30 x 91mm

Packing: Individual clamshell blister



## MW 4UA48HT

4.8A AC/ DC USB Charger with 4 USB Outlets  
With 4 Chargeable Input Plugs

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Output current: 4.8A shared by 4

LED indication:

Power LED Blue

Package includes: U, UK, SAA & AF plugs

Dimension: 70 x 30 x 91mm

Packing: Individual color giftbox



## MW 2UA48U

4.8A AC/ DC USB Charger with 2 USB Outlets

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Output current: 4.8A (shared by 2)

LED indication:

Power LED Blue

Dimension: 70 x 30 x 91mm

Packing: Individual clamshell blister



## MW 2UA48HT

4.8A AC/ DC USB Charger with 2 USB Outlets  
With 4 Chargeable Input Plugs

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC

Output voltage: 5.0V DC

Output current: 4.8A (shared by 2)

LED indication:

Power LED Blue

Package includes: U, UK, SAA & AF plugs

Dimension: 70 x 30 x 91mm

Packing: Individual color giftbox





## MW 2QA34U

Quick Charge 2.0--3.4A AC/ DC USB Charger with 2 USB Outlets

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Quick charge: 9V/ 2.0A; 12V/1.6A  
Normal charge: 5V/3.4A (shared by 2)  
LED indication:  
Quick charge: LED White (QC2.0)  
Normal charge: LED Blue  
Reduce charge time up to 75% in 30mins\*  
Dimension: 67 x 57 x 32mm  
Packing: Individual clamshell blister  
\*Qualcomm standard, result may be varied



Qualcomm  
Quick Charge 2.0  
compatible

White LED on when quick  
charging



## MW 2QA34HT

Quick Charge 2.0--3.4A AC/ DC USB Charger with 2 USB Outlets  
With 4 Changeable Input Plugs

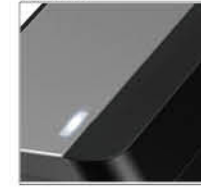
ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Quick charge: 9V/ 2.0A; 12V/1.6A  
Normal charge: 5V/3.4A (shared by 2)  
LED indication:  
Quick charge: LED White (QC2.0)  
Normal charge: LED Blue  
Package includes: U, UK, SAA & AF plugs  
Reduce charge time up to 75% in 30mins\*  
Dimension: 67 x 57 x 32mm  
Packing: Individual color giftbox  
\*Qualcomm standard, result may be varied



Qualcomm  
Quick Charge 2.0  
compatible

White LED on when quick  
charging



## MW 3UA34U

3.4A AC/ DC USB Charger with 3 USB Outlets

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 3.4A shared by 3  
Dimension: 67 x 57 x 32mm  
Packing: Individual clamshell blister



## MW 2UA24U

2.4A AC/ DC USB Charger with 2 USB Outlets

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A shared by 2  
Dimension: 50.7 x 48.9 x 73.3mm  
Packing: Individual clamshell blister



## MW 2UA24HT

2.4A AC/ DC USB Charger with 2 USB Outlets  
With 4 Changeable Input Plugs

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A shared by 2  
Package includes: U, UK, SAA & AF plugs  
Dimension: 55 x 56 x 36mm  
Packing: Individual color giftbox



## MW UA24U

2.4A AC/ DC USB Charger

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 2.4A  
Dimension: 48.9 x 50.7 x 65.3mm  
Packing: Individual clamshell blister



## MW UA10U

1.0A AC/ DC USB Charger

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC  
Output voltage: 5.0V DC  
Output current: 1.0A  
Dimension: 48.5 x 37.7 x 49.8mm  
Packing: Individual clamshell blister



MW UA10HT





Below USB series is our newly launched USB home chargers. This is a complete solution for automobile devices. Charging range is started from 4.8A to 1.0A; USB outlets from 4 ports to 1 port. Check out the series for the best solution. Below models are the 2-outlet version.

## MW USB5U-1

Compact 4800mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2.4A + 2.4A  
LED indication: Blue power LED  
Dimension: 60 x 60 x 31mm  
Packing: Individual clamshell blister



2.1A + 2.1A  
for Apple



2.1A + 2.1A  
for Apple & Samsung



2.4A + 2.4A  
w/ Auto detection

## MW USB2U-1

Compact 2000mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1.0A + 1.0A  
LED indication: Blue power LED  
Dimension: 35.3 x 35.3 x 27mm  
Packing: Individual clamshell blister



2.4A for Apple



2.1A for Samsung



2.1A for Apple



2.0A for Apple & Samsung



2.0A w/ Auto detection



2.4A for Apple

## MW USB3U-2

2400mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2400mA (max)  
Dimension: 50.7 x 47.7 x 62.9mm  
Packing: Individual clamshell blister



MW USB3U



2.1A for Apple

MW USB3U-3



2.1A for Samsung

## MW USB3UK-1

2400mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2400mA (max)  
Dimension: 47.8 x 44 x 48.7mm  
Packing: Individual clamshell blister



MW USB3UK



2.1A version

## MW 3FU2GS

2000mA SMPS with 2 USB Outlets

"Piano" Black finishing

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2000mA  
(max. for 2 USB outlets  
use simultaneously)  
With Power LED  
Dimension: 75 x 46 x 73.8mm  
Packing: Individual clamshell blister





## MW 6FU21GS

2100mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 2100mA  
Dimension: 75 x 46 x 73.8mm  
Packing: Individual clamshell blister



MW 6FU21HT



With changeable input plug version, MW 6FU21HT



## MW 6FU2GS

2000mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA x 2  
Dimension: 75 x 46 x 73.8mm  
Packing: Individual clamshell blister



MW 6FU2HT



With changeable input plug version, MW 6FU2HT



## MW FU11GS

Ultra Tiny 1000mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 37.5 x 17 x 67mm  
Packing: Individual clamshell blister



## MW UKUSB

1000mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 47.8 x 44 x 48mm  
Packing: Individual clamshell blister



## MW FU10GS

Compact 1000mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
LED indication: power LED  
Dimension: 47 x 27 x 57.3mm  
Packing: Individual clamshell blister



MW FU10UK



UK Version



## MW MU10GS

Compact 1000mA Switching Adaptor with Micro USB cable

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output Current: 1000mA  
Output Plug: Micro USB  
LED indication: power LED  
Dimension: 47 x 27 x 57.3mm  
Packing: Individual clamshell blister



## MW USBU

1000mA USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 74.3 x 39.6 x 22.6mm  
Packing: Individual clamshell blister





## MW 3MU1HT

1000mA USB Switching Adaptor with 4 Changeable Input Plugs

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 75 x 46 x 36.6mm  
Packing: Individual clamshell blister



MW 3MU2HT



1A with 2USB ports



## MW 2009GS

2000mA SMPS with 4 USB Outlets

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5V DC  
USB Output Current: 2000mA (max. of 4 USB outlets)  
Combo included:  
• AC cord (VDE)  
• MW CP1

Dimension: 82 x 54 x 30mm

Packing: Individual clamshell blister



SE socket



## MW A4U

4 in 1 USB Power Bar

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC/ 12V DC  
4 USB outlets  
USB Output Current: 2000mA (max. of 4 USB outlets)  
Combo included:  
1. MW 3K10GS  
2. MW CP1

With Power LED

Dimension: 100 x 40 x 25mm

Packing: Individual clamshell blister



"Piano" Black finishing



## MW U2D20

Dual Input 1000mA SMPS with 2 USB Outlets

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

• Workable with AC or DC in one unit  
• Foldable input U (schuko) plug  
• Plug-in cigarette lighter plug  
Input Voltage: 100-240V AC, 60/ 50Hz; 12-13.8V DC  
Output Voltage: 5V DC/ 1000mA  
(max. for 2 outlets use simultaneously)  
With Power LED  
Dimension: 78 x 54 x 30mm  
Packing: Individual clamshell blister



"Piano" Black finishing



## MW PP201

Universal Power Station

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

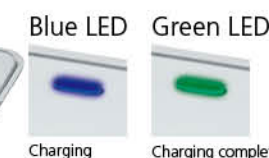
Input Voltage: 100-240V AC, 60/ 50Hz, 12V DC  
Input port: (1) 5.5\*2.1mm DC port  
(2) Micro USB port  
Output current: (1) USB outlet: 2.1A  
(2) 3.5mm outlet x 2: 1A (total)  
Output port: (1) USB charging & data sync x 1  
(2) 3.5mm DC charging port x 2  
Dimension: 240 x 143.8 x 49.8 mm  
Combo included:  
(1) NS120P180PGS (adaptor)  
(2) MW CB12 (Charge and data cable)  
(3) 3 changeable output plugs  
(I) Micro USB  
(II) Mini USB  
(III) Nokia  
Packing: Individual color gift box



MW CB12



For charging & Data synchronization



## MW MA48

Compact 4800mA USB Switching Adaptor w/ Micro USB Cable

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output (1): 2.4A with Micro USB connector  
Output (2): 2.4A, USB type A outlet  
LED indication: Blue power LED  
Dimension: 60 x 60 x 31 mm  
Packing: Individual color giftbox



## MW MA24

Compact 2400mA Switching Adaptor w/ Micro USB Cable

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output: 2.4A with Micro USB cable  
LED indication: Blue power LED  
Dimension: 48 x 48 x 27mm  
Packing: Individual color giftbox



MW PA24



2.4A Apple 30-pin cable





## MW MA20

Compact 2000mA USB Switching Adaptor w/ Micro USB Cable

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output (1): Micro USB Cable  
Output (2): USB type A outlet  
Output: 2.0A (share)  
LED indication: Blue power LED  
Dimension: 48 x 48 x 27mm  
Packing: Individual color giftbox



## MW MA10

Compact 1000mA Switching Adaptor w/ Micro USB Cable

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
Output: 1.0A with Micro USB cable  
Dimension: 67 x 37.5 x 17.1mm  
Packing: Individual color giftbox



MW NA10



1.0A Mini USB cable

MW KA10



1.0A Nokia cable



## MW DM102

Tiny 1.0Amp USB Switching Adaptor

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V  
Complied with EN62684:2010

Design for use with Data-enabled mobile phones  
Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 39.6 x 22.6 x 74.3mm  
Packing: Individual clamshell blister



## MW DM102UK

Tiny 1.0Amp USB Switching Adaptor (UK version)

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V  
Complied with EN62684:2010

Design for use with Data-enabled mobile phones  
Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 47.8 x 44 x 48.7mm  
Packing: Individual clamshell blister



Below items are the Samsung Galaxy series. All products in this series are specially design for Samsung Galaxy Tablet.

## TD-001

2.0Amp AC Power Set for Samsung Galaxy Tablet

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/50Hz  
USB Output Voltage: 5.0V DC  
USB Output Current: 2000mA  
Package includes: 1pc AC USB adaptor  
1pc USB cable

Dimension: 73.8 x 46 x 75mm  
Packing: Individual clamshell blister



TD-003



w/4 changeable plugs

TD-002HT



TD-002



w/Fixed cable



## MW TD-008GS

42W Universal AC Power Adaptor for Tablet PCs

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz  
Output 1: 9V/ 10.5V DC, 3.0A  
12V/ 15V/ 19V DC, 1.5A  
Output 2: 5V DC, 2.1A  
Output plug: ML (fixed at the cable end) & 5MNC (MNX, MND, M08Q, DC3, DC6)  
Able to charge up to 2 tablets at the same time  
Packed with MW CB18 (USB to Micro USB)  
LED indication: Blue Power LED  
Dimension: 107.3 x 70 x 35mm  
Packing: Individual clamshell blister  
Pls go to page 40 for more tip options  
Compatibility: (1) Toshiba tablets (3) Acer tablets (5) Sony P tablets  
(2) Viewsonic tablets (4) Motorola tablets (6) Huawei tablets



MW CB18



## TD-006

1.5Amp AC Power Adaptor for Motorola Xoom Tablet

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/50Hz  
USB Output Voltage: 12V DC  
USB Output Current: 1500mA  
Output plug: specially for Motorola Xoom tablet  
Dimension: 76.5 x 42.4 x 72.3mm  
Packing: Individual clamshell blister



## TD-006HT

1.5Amp AC Power Adaptor for Motorola Xoom Tablet with 4 Changeable Input Plugs

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input Voltage: 100-240V AC, 60/50Hz  
USB Output Voltage: 12V DC  
USB Output Current: 1500mA  
Output plug: specially for Motorola Xoom tablet  
Dimension: 76.5 x 42.4 x 72.3mm  
Packing: Individual clamshell blister





## Tablet Tips

Ordering code	Image	Diagram	Dimension	Brand(s)	5MNC
M08Q			2.0 x 0.6/8	Motorola tablet	✓
MND			3.2 x 0.9/10.5	Acer tablet	✓
MNX			4.0 x 1.7/11.5	Toshiba/Viewsonic tablet	✓
MFi-DC1			26 x 7 x 12	iPod/iPhone/iPad	
MFi-DC9			26 x 7 x 12	iPod/iPhone/iPad	
DC2			26 x 7 x 12	Samsung Galaxy Tab	
DC3			4.7 x 1.7/10	Sony P tablet	✓
DC6			3.0 x 1.1/8	Huawei tablet	✓
DC7			USB type A	Change Apple to Blackberry setting	
DC10			USB type A	Change Blackberry to Apple setting	
DC11			USB type A	Change Apple to Samsung setting	
DC12			USB type A	Change Apple to Sony setting	

# USB Power DC

Notes:

USB DC Power — P.60-66      DC Tips — P.80  
 USB DC /w Cables — P.69  
 USB Type-C Cables — P.71-77  
 Micro USB Cables & Others — P.71-77



Below USB series is our newly designed high speed QC4+ USB car chargers with Type-C outlet. This is a complete solution for all your portable devices.

## MW CD15W



### 15W DC/ DC USB Charger w/ Type-C outlet

Input voltage: 12-24V DC  
Output voltage: 5.0V DC  
Output current: 3.0A Shared by 3  
LED indication:  
Power LED Blue  
Dimension: 69 x 38 x 28 mm  
Packing: Individual clamshell blister



MW CD15W-1



3.4A w/1USB A + 1Type-C

MW AD15W-1



3.4A w/2USB A



## iBz-PD29DC



### Power Delivery3.0/QC4

### 29W 2 in 1 Type-C USB car chargers for iPhone

Input voltage: 12-24V DC  
Output current:  
PD: 14.5V/2.0A; 5V/2.4A  
QC4: 3.6V-6.5V/3A;  
6.5V-9V/2A;  
9V-12V/1.5A  
Power LED Blue  
Dimension: 29 x 38 x 28 mm  
Packing: Individual clamshell blister

**New**



Made for  
iPhone | iPad | iPod



Qualcomm  
Quick Charge 4  
compatible



## MW PD40D



### Power Delivery3.0

### 40W DC/ DC Type-C USB Charger

Erp 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 12-24V  
Channel 1 (Type-C):  
PD: 14.5V/2.0A; 5V/2.4A  
Channel 2 (Type-A):  
2A Shared by 2  
LED indication: Power LED Blue  
Dimension: 47 x Ø 20 mm  
Packing: Individual clamshell blister



The below USB product is our newly designed all in one car chargers with both Power Delivery (PD2.0) and Qualcomm Quick Charge (QC4+). This is a complete solution for all your portable devices.

## MW QD20W



### Quick Charge 3.0 —20W DC/ DC USB Charger

Erp 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 12-24V  
Quick Charge:  
3.6V-6.5V/3A;  
6.5V-9V/2A;  
9V-12V/1.5A  
Normal Charge: 5V/3A (shared by 2)  
LED indication: Power LED Green  
Dimension: 69 x 38 x 28 mm  
Packing: Individual clamshell blister

**New**



Qualcomm  
Quick Charge 3.0  
compatible



## MW QD30W



### Quick Charge 3.0 —30W DC/ DC USB Charger

Input voltage: 12-24V DC  
Output voltage: 5.0V DC  
Channel 1 (Quick Charge):  
3.6V-6.5V/3A;  
6.5V-9V/2A;  
9V-12V/1.5A  
Channel 2 (Normal Charge): 2.4A  
LED indication: Power LED Green  
Dimension: 69 x 38 x 28 mm  
Packing: Individual clamshell blister

**New**



Qualcomm  
Quick Charge 3.0  
compatible



## MW PDQ60D



### Power Delivery3.0/QC4

### DC/DC Type-C USB Charger w/ USB ports

Input voltage: 12-24V DC  
Output current:  
Type-C Outlet 1  
PD: 14.5V/2A; 5V/2.4A  
QC 4: 3.6V-6.5V/3A;  
6.5V-9V/2A;  
9V-12V/1.5A (max)  
Type-A & Type-C Outlet (2-5):  
5V/6.0A (Shared by 4)  
LED indication: Power LED Blue  
Dimension: 76.2 x 80 x 33 mm  
Packing: Individual color giftbox

**New**



Qualcomm  
Quick Charge 4  
compatible





## MW DU4

2400mA \*2 +2000mA\*2 DC/ DC USB Charger

For Apple & Samsung

Input voltage: 12V DC

Output voltage: 5.0V DC x 4

i1, i2 (Apple): 2.4A x 2

s1, s2 (Samsung): 2.0A x 2

LED indication:

i1, i2 (Apple): Power LED WHITE

s1, s2 (Samsung): Power LED BLUE

Dimension: 76.2 x 80 x 33mm

Packing: Individual clamshell blister



## MW DUA4

Auto Detect 2400mA \*2 +2400mA\*2 DC/ DC USB Charger For Apple & Other Mobile Devices

Input voltage: 12 DC

Output voltage: 5.0V DC x 4

i1, i2 (Apple): 2.4A x 2

a1, a2 (Auto Search): 2.4A x 2

LED indication:

i1, i2 (Apple): Power LED WHITE

a1, a2 (Auto): Power LED GREEN

Dimension: 76.2 x 80 x 33mm

Packing: Individual clamshell blister



## MW 4UD482

12-24V 4.8A DC/ DC USB Charger

with 4 USB Outlets

Input voltage: 12-24V DC

Output voltage: 5.0V DC

Output current: 4.8A shared by 4

LED indication: Power LED Blue

Dimension: 67.4 x 47.9 x 28.4mm

Packing: Individual clamshell blister



## MW 2UD48-1

4.8A DC/ DC USB Charger

Input voltage: 12V DC

Output voltage: 5.0V DC

Output current: 4.8A shared by 2

LED indication: Power LED Blue

Dimension: 65.7 x 31.3 x 31mm

Packing: Individual clamshell blister



MW 2UD42-1



4.2A shared by 2



## MW 2UD482

12-24V 4.8A DC/ DC USB Charger with 2 USB Outlets

Input voltage: 12-24V DC

Output voltage: 5.0V DC

Output current: 2.4A+2.4A

LED indication:

Power LED Blue

Dimension: 67.4 x 47.9 x 28.4mm

Packing: Individual clamshell blister



## MW DU234

3.1A DC/DC USB Charger For Apple & Samsung

Input voltage: 12-24V DC

Output voltage: 5.0V DC

Output current: 3.4A Shared by 2

LED indication:

Power LED Blue

Dimension: 73 x 30 x 32 mm

Packing: Individual clamshell blister

New



## MW DU248

4.8A DC/DC USB Charger For Apple & Samsung

Input voltage: 12-24V DC

Output voltage: 5.0V DC

Output current: 4.8A Shared by 2

LED indication:

Power LED Blue

Dimension: 73 x 30x 32 mm

Packing: Individual clamshell blister

New



## MW DUA2

Auto Detect 2400mA + 1000mA DC/ DC USB Charger For Apple & Other Mobile Devices

Input voltage: 12-24V DC

Output voltage: 5.0V DC x 2

Output current:

Auto search: 2.4A x 1, 1.0A x 1

LED indication:

Power LED Blue

Dimension: 73 x 30 x 32mm

Packing: Individual clamshell blister





## MW DU2

2400mA + 1000mA DC/ DC USB Charger

For Apple & Samsung

Input voltage: 12-24V DC

Output voltage: 5.0V DC x 2

Apple: 2.4A

Samsung: 1.0A

LED indication:

Power LED Blue

Dimension: 73 x 30 x 32mm

Packing: Individual clamshell blister



## MW 2UD24-1

2.4A DC/ DC USB Charger

Input voltage: 12V DC

Output voltage: 5.0V DC

Output current: 2.4A Shared by 2

LED indication:

Power LED Blue

Dimension: 59.7 x 31.3 x 31mm

Packing: Individual clamshell blister



MW 2UD21-1



2.1A shared by 2



## MW 2UD242

12-24V 2.4A DC/ DC USB Charger  
with 2 USB Outlets

Input voltage: 12-24V DC

Output voltage: 5.0V DC

Output current: 2.4A shared by 2

LED indication:

Power LED Blue

Dimension: 58.6 x 30 x Ø20mm

Packing: Individual clamshell blister



## MW UD242

12-24V 2.4A DC/ DC USB Charger

Input voltage: 12-24V DC

Output voltage: 5.0V DC

Output current: 2.4A

LED indication:

Power LED Blue

Dimension: 58.6 x 30 x Ø20mm

Packing: Individual clamshell blister



Below UD series is our newly launched USB car chargers. This is a complete solution for automobile devices. Charging range is started from 4.8A to 1.0A; USB outlets from 4 ports to 1 port. Check out the series for the best solution.

## MW 2QD24

Quick Charge 2.0--2.4A DC/ DC USB Charger with 2 USB Outlets

Input voltage: 12V DC

Output voltage: 5.0V DC

Quick charge: 9V/1.8A, 12V/1.5A

Normal charge: 5V/2.4A (shared by 2)

LED indication:

Quick charge: LED White

Normal charge: LED Blue

Reduce charge time up to 75% in 30mins\*

Dimension: 58.6 x 30 x Ø20mm

Packing: Individual clamshell blister

Reversible USB Type-A sockets, model MW R2QD24.

\*Qualcomm standard, result may be varied



Qualcomm  
Quick Charge 2.0  
compatible

White LED on when quick  
charging



## MW 2UD24

2.4A DC/ DC USB Charger with 2 USB Outlets

Input voltage: 12V DC

Output voltage: 5.0V DC

Output current: 2.4A shared by 2

LED indication:

Power LED Blue

Dimension: 58.6 x 30 x Ø20mm

Packing: Individual clamshell blister



## MW UD24-1

2.4A DC/ DC USB Charger

Input voltage: 12V DC

Output voltage: 5.0V DC

Output current: 2.4 A

LED indication:

Power LED Blue

Dimension: 48.7 x 25.6 x 21mm

Packing: Individual clamshell blister



MW UD21-1



2.1A version



## MW UD24

2.4A DC/ DC USB Charger

Input voltage: 12V DC

Output voltage: 5.0V DC

Output current: 2.4A

LED indication:

Power LED Blue

Dimension: 58.6 x 30 x Ø20mm

Packing: Individual clamshell blister





## MW 3399-1



### Compact 4800mA USB DC/DC Converter

Input voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 2.4A + 2.4A  
LED indication: Blue power LED  
Dimension: 25 x 69 x Ø20mm  
Packing: Individual clamshell blister



#### MW 3399



2.1A + 2.1A  
for Apple

#### TD-306



2.1A + 2.1A  
for Apple & Samsung

#### MW 3399-2



## MW 3361-1



### Compact 2400mA USB DC/DC Converter

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 2400mA  
(max. for 2 USB outlets  
use simultaneously)  
LED indication: Blue power LED  
Dimension: 47 x Ø20mm  
Packing: Individual clamshell blister



#### MW 3361



2.0A for Apple

#### TD-303



2.0A for  
Apple & Samsung

#### MW3361-2



2.4A for Apple



## MW 3395-1



### Compact 2400mA USB DC/DC Converter

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 2400mA  
LED indication: Blue power LED  
Dimension: 48.3 x 20 x 32mm  
Packing: Individual clamshell blister



#### MW 3395



2.1A for Apple



## MW DU1



### 3000mA DC/DC Converter w/ USB Outlet

Input voltage: 12-13.8V DC  
Output voltage:  
3.0 / 4.5 / 5.0 / 6.0 / 7.5 / 9.5 / 12.0V DC  
Output current: 3A (max.)  
USB output: 5V DC/ 1A  
Output plug: 6XC  
LED indication: Power LED  
Dimension: 76.2 x 80 x 33mm  
Packing: Individual clamshell blister



## MW 3393



### 1000mA USB DC/DC Converter

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Dimension: 48.3 x 20 x 32mm  
Packing: Individual clamshell blister



## MW 3362



### 1000mA DC/DC Converter w/ Spiral Micro USB Cable

Input Voltage: 12-24V DC  
Output Voltage: 5.0V DC  
Output Current: 1000mA  
Output Plug: Micro USB  
LED indication: power LED  
Dimension: 100 x 40 x 25mm  
Packing: Individual clamshell blister





## MW 3392

### 1000mA USB DC/DC converter w/ Cigarette Lighter Socket

Input Voltage: 12V DC  
USB Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
Cigarette Lighter Socket Output: 12V DC  
Cigarette Lighter Socket Current: 5A (with 10A fuse)  
Dimension: 106.1mm x 52mm x 33mm  
Packing: Individual clamshell blister



## MW 3391

### Tiny 1000mA USB DC/DC Converter

Input Voltage: 12-24V DC  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA (max)  
Dimension: 20 x 62.5mm  
Packing: Individual clamshell blister



## MW 9U21

### 2100mA USB DC/DC Converter

Input Voltage: 12-13.8V DC  
Output Voltage: 5.0V DC  
USB Output Current: 2100mA  
Dimension: 63.5 x 20 x 15mm  
Packing: Individual clamshell blister



## MW 8U2

### 2000mA DC/DC Converter with 2 USB outlets

Input voltage: 12-13.8V DC  
Output voltage: 5.0V DC  
Output current: 2.0A  
(max. for 2 outlets using simultaneously)  
With Power LED  
Dimension: 100 x 40 x 25mm  
Packing: Individual clamshell blister



## MW MD48

### Compact 4800mA USB Switching Adaptor w/ Micro USB Cable

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output (1): 2.4A with Micro USB connector  
Output (2): 2.4A, USB type A outlet  
LED indication: Blue power LED  
Dimension: 25 x 69 x Ø20mm  
Packing: Individual color giftbox



## MW MD24

### Compact 2400mA DC/DC Converter w/ Micro USB Cable

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output: 2.4A with Micro USB connector  
LED indication: Blue power LED  
Dimension: 47 x Ø20mm  
Packing: Individual color giftbox



## MW MD20

### Compact 2000mA USB DC/DC Converter w/ Micro USB Cable

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output (1): Micro USB Cable  
Output (2): USB type A outlet  
Output: 2.0A (share)  
LED indication: Blue power LED  
Dimension: 47 x Ø20mm  
Packing: Individual color giftbox



## MW MD10

### Compact 1000mA DC/DC Converter w/ Micro USB Cable

Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
Output: 1.0A with Micro USB cable  
LED indication: Blue power LED  
Dimension: 47 x Ø20mm  
Packing: Individual color giftbox



### MW PD24



2.4A Apple 30-pin cable

### MW KD10



1.0A Nokia cable

### MW ND10



1.0A Mini USB cable



## MW DM302

Tiny 1.0Amp USB DC/DC Converter

Complied with EN62684:2010

Design for use  
with Data-enabled mobile phones  
Input Voltage: 12V DC  
Output Voltage: 5.0V DC  
USB Output Current: 1000mA  
LED indication: Power LED  
Dimension: 48.3 x 20 x 32mm  
Packing: Individual clamshell blister



## TD-301



2.0Amp DC Power Set for Samsung Galaxy Tablet

Input Voltage: 12-13.8V DC  
USB Output Voltage: 5.0V DC  
USB Output Current: 2000mA  
Package includes:  
1pc USB DC/DC converter  
1pc USB cable  
Dimension: 63.5 x 24 x 15mm  
Packing: Individual clamshell blister



## TD-302

1.5Amp DC/DC Converter for Motorola Xoom Tablet

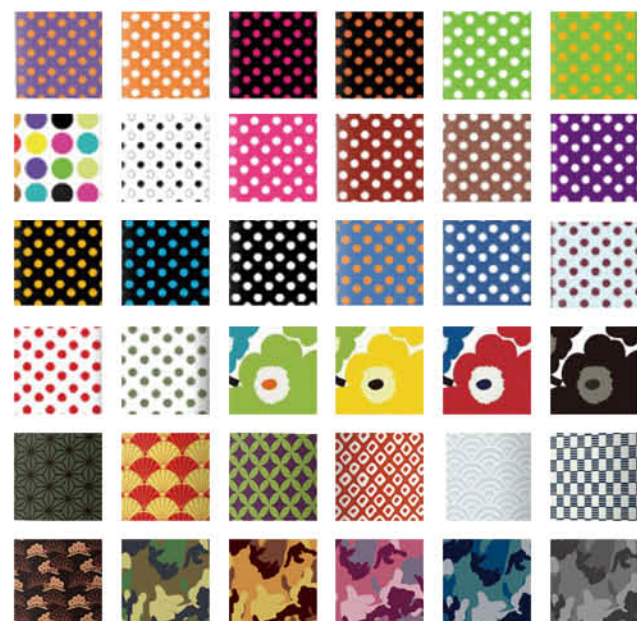
Input Voltage: 12- 13.8V DC  
USB Output Voltage: 12V DC  
USB Output Current: 1500mA  
Output plug: specially  
for Motorola Xoom tablet  
Dimension: 63.5 x 24 x 15mm  
Packing: Individual clamshell blister



Customized cable plug pattern option available



contact our sales person for details.



## MW CB23-100

2.0 USB Type-C to USB Type-C Cable

USB Data & Charge

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister



USB TypeC

Model Number	Length
MW CB23-120	2m <b>New</b>



## MW CB23-300

Tough Core 1m 2.0 USB Type-C to USB Type-C Data/  
Charging Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister

**New**



## MWCB23-B300

Tough Core 1m 2.0 USB Type-C to USB Type-C Data/  
Charging Braided Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister

**New**



MWCB23-B300W



**New**





## MW CB22-100

3.1 USB Type-C to USB Type-C Cable with IC USB Data & Charge

Input Voltage: 5.0V DC

Output Voltage: 5.0V DC

Built in IC

Transfer Rate: 10GB

Cable Length: 1m

Packing: Individual clamshell blister



Model Number	Length
MW CB22-120	2m <b>New</b>



## MW CB22-300

Tough Core 1m 3.1 USB Type-C to USB Type-C Data/Charging Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Built in IC

Transfer Rate: 10GB

Cable Length: 1m

Packing: Individual clamshell blister

**New**



## MWCB22-B300

Tough Core 1m 3.1 USB Type-C to USB Type-C Data/Charging Braided Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Built in IC

Transfer Rate: 10GB

Cable Length: 1m

Packing: Individual clamshell blister

**New**



MWCB23-B300W



**New**



Model Number	Length
MWCB22-B320	2m <b>New</b>

## MW CB21-100

3.0 USB Type-C to USB Type-C Cable

USB Data & Charge

Input Voltage: 5.0V DC

Output Voltage: 5.0V DC

Cable Length: 1m

Packing: Individual clamshell blister



Model Number	Length
MW CB21-120	2m <b>New</b>



## MW CB21-300

Tough Core 1m 3.0 USB Type-C to USB Type-C Data/Charging Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 1m

Packing: Individual clamshell blister

**New**



## MWCB21-B300

Tough Core 1m 3.0 USB Type-C to USB Type-C Data/Charging Braided Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 1m

Packing: Individual clamshell blister

**New**



MWCB21-B300W



**New**



Model Number	Length
MWCB21-B320	2m <b>New</b>



## MW CB20-100

3.0 USB A to USB Type-C Cable  
USB Data & Charge

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister



Model Number	Length
MW CB20-120	2m

New



3.0 USB typeA Plug



## MW CB20-300

Tough Core 1m 3.0 USB Type-A to USB Type-C Data/  
Charging Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister

New



Model Number	Length
MW CB20-320	2m

New



## MWCB20-B300

Tough Core 1m 3.0 USB Type-A to USB Type-C Data/  
Charging Braided Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister

New



MW CB20-B300W



New



Model Number	Length
MWCB20-B320	2m

New

## MW CB19-100

USB A to USB Type-C Cable  
USB Data & Charge

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister  
\*Reversible USB Type-A version,  
model MW RCB19-100.



Model Number	Length
MW CB19-120	2m

New



MW CB19LED-100



New

Connection LED



## MW CB19-300

Tough Core 1m USB Type-A to USB Type-C Data/  
Charging Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister

New



Model Number	Length
MW CB19-320	2m

New



## MWCB19-B300

Tough Core 1m USB Type-A to USB Type-C Data/  
Charging Braided Cable with Exceptional Bend Lifespan

Input voltage: 5.0V DC  
Output voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister

New



MW CB19-B300W



New



Model Number	Length
MWCB19-B320	2m

New



## iBz-210C

1m Lightning to USB Type-C Cable

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 1m

Packing: Individual clamshell blister

Made for  
iPhone | iPad | iPod



## MW CB15-AB100CG

1m Micro USB Data /  
Charging Braided Cable  
with aluminum case

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 1m

Packing: Individual color giftbox



MW CB15-AB100SG



MW CB15-AB100RG



MW CB15-AB100SS



MW CB15-AB100BB



## MW CB25-030

30cm Micro USB to  
Micro USB Jump-Start Cable

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 30cm

Packing: Individual color giftbox



## MW CB15-100

USB to Micro USB Data/  
Charging Cable

Input Voltage: 5V DC

Output plug: Micro USB

Cable Length: 1m

Packing: Individual clamshell blister



MW CB15LED-100



Connection LED



Model Number	Length
MW CB15-120	2m
MW CB15-130	3m

## MW CB15-300

Tough Core 1m USB to Micro USB Data/Charging Cable with  
Exceptional Bend Lifespan

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 1m

Packing: Individual clamshell blister

New



Model Number	Length
MW CB15-320	2m

New



## MW CB15-B300

Tough Core 1m USB to Micro USB Data/Charging Braided Cable with  
Exceptional Bend Lifespan

Input voltage: 5.0V DC

Output voltage: 5.0V DC

Cable Length: 1m

Packing: Individual clamshell blister



MW CB15-B300W



Model Number	Length
MWCB15-B320	2m

New



## MW RCB15-100

Reversible USB Type-A to Micro USB Cable  
USB Data & Charge

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister



Model Number	Length
MW RCB15-120	2m

Reversible USB typeA Plug



## CB19-R080

9cm Micro USB cable w/ Ring Hold  
USB Data & Charge

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
Cable Length: 9cm  
Packing: Individual clamshell blister



## MW DC18

USB Type-C to Micro USB Adaptor

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
\*Ideal for converting USB Type-C to Micro USB  
Dimension: 35.5 x 12 x 7.5mm  
Packing: Individual clamshell blister



## MW DC19

Micro USB to USB Type-C Adaptor

Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
\*Ideal for converting Micro USB to USB Type-C  
Dimension: 35.5 x 12 x 7.5mm  
Packing: Individual clamshell blister



## MW CB11

USB to USB Female Charging Cable

Input Voltage: 5V DC  
Cable Length: 1.8m  
Packing: Individual clamshell blister  
You may choose our USB cable to make your assortment  
Contact our sales person for details



## MW CB16

5 in 1 USB Charging Cable for Audio & Games

Input Voltage: 5V DC  
Cable Length: 1.5m  
With 5 output plugs:  
1. NDSL 2) PSP  
2. Mini USB 4) Micro USB  
5) Nokia  
Packing: Individual clamshell blister



## MW CB8

USB to 3.5mm Female Charging Cable for Audio & Games

Input Voltage: 5V DC  
Cable Length: 1.5m  
With 5 changeable output plugs: (5PPM)  
1) Female USB  
3) Nokia  
4) Mini USB  
5) Micro USB  
(Pls go to page 79 for more tips options or contact our sales person for details)  
Packing: Individual clamshell blister



## TD-000

USB Data/ Charging Cable for Samsung Galaxy Tablet


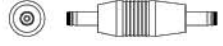




































Input Voltage: 5.0V DC  
Output Voltage: 5.0V DC  
Cable Length: 1m  
Packing: Individual clamshell blister





# PM DC Tips

Below the PM plugs are for using with our AC/ DC adaptors, DC/ DC converters & USB cables. The standard versions have included the PM plug set. Customers may choose from below to make their own combo.

Ordering code	Image	Diagram	Dimension	Brand(s)
PM01			3.5 x 1.1mm	NOKIA
PM02			13.2 x 3.9mm	SIEMENS
PM05			7.8 x 6.0mm	ERICISSON
PM06			12.65 x 2.3mm	SAMSUNG
PM07			7.9 x 2.35mm	MOTOROLA
PM11			20.5 x 3.9mm	SONY ERICISSON
PM12			9.0 x 1.8mm	LG
PM17			6.8 x 3.0mm	MINI USB
PM20			4.0 x 1.7mm	PSP
PM21			7.8x 3.05mm	FEMALE USB
PM22			7.8x 3.05mm	NDSL
PM23			6.3 x 3.8mm	NDSi
PM24			6.3 x 3.8mm	8 pins Mini USB
PM25			6.3 x 3.8mm	Samsung
PM26			6.3 x 3.8mm	PSP Go
PM28			2.5 x 0.7mm	NOKIA
PM29			6.8 x 3.0mm	MICRO USB
PM32			2.5 x 0.75 x 11mm	ASUS Netbook
PM33			3 x 1.1 x 11mm	ASUS UX31 Ultra-book

# Automobile Power

Notes:

- Marine Battery Chargers — [P.82-83](#)
- 12/ 24V Battery Tester — [P.84](#)
- Car Battery Chargers — [P.85-94](#)
- Lead Acid Battery Charger — [P.95](#)
- DC/AC Inverters — [P.96](#)



MW MLF-CC140U and MW MLF-CC280U is our newly developed intelligent 8-Step fully automatic switch mode marine charger and maintainer. It is designed special applied to 12V lead-acid Battery: Wet, MF, VRLA, AGM, Calcium and GEL 1.2Ah to 120 Ah, All Battery Sizes for maintenance under 8 step charging.

The whole charging procedure is under the control of MCU.

## MW MLF-CC140U



4A 12V 8-Step Intelligent Fully Automatic Switch Mode Marine Charger With CC/CV Control for Lead-Acid Battery of Wet, MF, VRLA, AGM and GEL

ErP 2nd stage compliance

CEC efficiency: LevelⅤ

MEPS: V

Input: 220-240V AC, 50/60Hz, 1.2A

Output current: 2.5A/ 4.0A (max)

Charging voltage: 2.0V-14.6V

Charging current:

12V (Normal): 2.0-10.5V @2.5A

12-14.8V @4.0A

Battery Recovery mode:

2.0-10.5V/ 2.5A Pulse Charging

Insulation:

IP68 (Dust and Water-Resistant)

Outdoor Use

Protection:

✓ Short circuit protection

✓ Overload protection

✓ Wrong polarity protection

✓ Reverse battery protection

✓ Safety timer protection

Packed with:

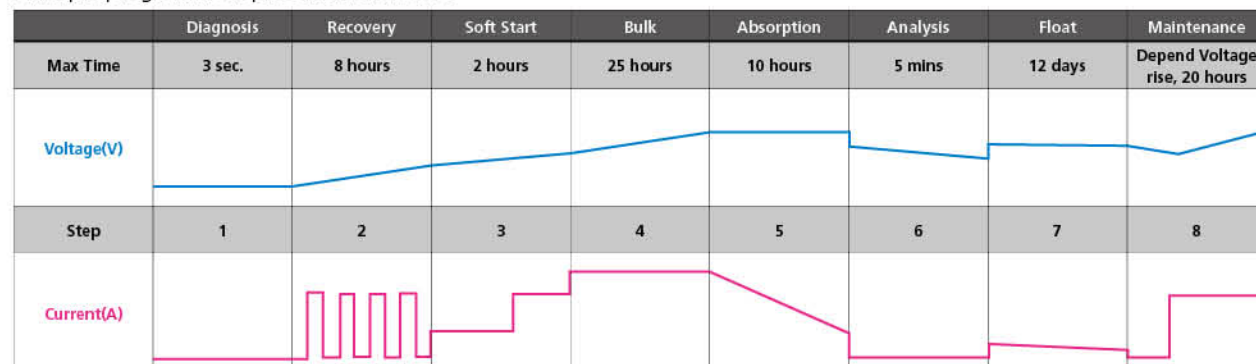
(1)MW CC-BC1: Battery Clamp Connector



LED indication:

Item	Indication	LED color
Power On Reset	All LED flash 1time for self check.	RED Flash
Power ON	No battery connected	Switch lighting: RED & Green
Charging	Step1-6	RED steady
Full Charged and Maintenance	Step7-8	Green steady
Error	Flashing: 1. reverse battery connection 2. Charging been interrupted in STEP 2 or 3, 6. 3. 0.5V<Battery voltage<2.0V 4. battery voltage>16V	Orange Flash

Principle programme representation 12V Pb



## MW MLF-CC280U



4A + 4A Dual Channel 12V 8-Step Intelligent Fully Automatic Switch Mode Marine Charger With CC/CV Control for Lead-Acid Battery of Wet, MF, VRLA, AGM and GEL

ErP 2nd stage compliance

CEC efficiency: LevelⅤ

MEPS: V

Input: 220-240V AC, 50/60Hz, 2.2A

Output current: Channel (1) 2.5A/4.0A

Channel (2) 2.5A/4.0A

Charging voltage: Channel (1) 2.0V-14.6V

Channel (2) 2.0V-14.6V

Charging current:

12V (Normal): 2.0-10.5V @2.5A

12-14.8V @4.0A

Battery Recovery mode:

2.0-10.5V/ 2.5A Pulse Charging

Insulation:

IP68 (Dust and Water-Resistant)

Outdoor Use

Protection:

✓ Short circuit protection

✓ Overload protection

✓ Wrong polarity protection

✓ Reverse battery protection

✓ Safety timer protection

Packed with:

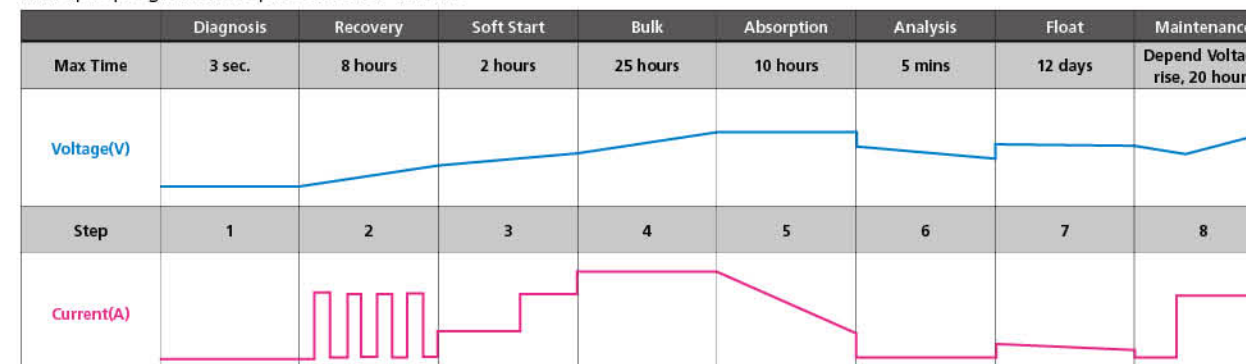
(1)MW CC-BC1: Battery Clamp Connector



LED indication:

Item	Indication	LED color
Power On Reset	All LED flash 1time for self check.	RED Flash
Power ON	No battery connected	Switch lighting: RED & Green
Charging	Step1-6	RED steady
Full Charged and Maintenance	Step7-8	Green steady
Error	Flashing: 1. reverse battery connection 2. Charging been interrupted in STEP 2 or 3, 6. 3. 0.5V<Battery voltage<2.0V 4. battery voltage>16V	Orange Flash

Principle programme representation 12V Pb





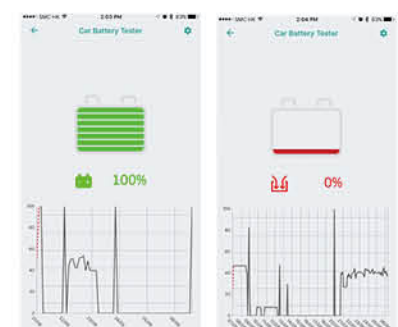
Below MW337BT is an intelligent Bluetooth battery tester for checking the car battery status on your iOS/Android mobile devices. Now you can check your car battery condition in your car and without opening the hood with the built-in Bluetooth module.

There is also a DC socket for charging the car battery through the tester. User does not need to remove the tester.

## MW 337BT

Intelligent 6/12/24V Smart Bluetooth Battery tester for Vehicles

Input voltage: 6/12/24V DC  
Using car battery  
to provide power for testing  
Dimension:  
68 x 48 x 12mm  
Packing:  
Individual color giftbox



(App control)



## MW 336

Intelligent 12V & 24V Battery Tester w/ LCD Panel for Vehicles & Boats

Input: 12.0 or 24.0V DC  
Using car battery to provide power for testing  
Slide switch for 12V or 24V selection  
LED indication :  
Extremely low battery voltage : Red  
LCD backlight in Blue  
Packed with:  
(1)Battery Clamp Connector (MW CC-BC2)  
(2)Eyelet Terminal Connector (MW CC-ET2)  
(3)Cigarette Lighter Plug (MW CP1)  
Dimension: 75.7 x 49.2 x 19mm  
Packing: Individual color giftbox



Slide switch 12/24V



Low voltage indicator: Red LED



LCD backlight button

MW LF-CC300PB is our newly developed intelligent 8-Step fully automatic switch mode battery charger and maintainer. It is designed for charging a variety of 6V and 12V SLA (sealed lead acid) batteries.

The Charger also includes exclusive features such as charging mode under the condition of 12V low-temperature battery, Booster Car emergency start function, 13.6V power output function, LCD battery charge and capacity indicator and battery recovery function.

## MW LF-CC300PB

10.0A 6V/ 12V 8-Step Intelligent Fully Automatic Switch Mode Battery Charger for Lead-Acid Battery of Wet, MF, VRLA, AGM and GEL with 300A Jump-Start Function

ErP 2nd stage compliance

CEC efficiency: Level Ⅴ

MEPS: V

Input: 220-240V AC, 50/60Hz, 1.9A  
Output current: 0.8A / 2.0A/ 3.8A/ 5.0A/ 7.5A/ 12A (max)  
Charging voltage: 7.3V/ 14.4V/ 14.7V  
Charging current:  
6V (Normal): 3.7 – 7.3V @0.8A  
(Fast): 3.7-6.4V @2.0A  
6.4-7.3V @0.8A  
12V (Normal): 4.5-10.5V @0.8A  
10.5-14.4V @2.0A  
(Fast): 4.5-10.5V @3.0A  
10.5 - 12.8V @ 10A  
12.8 - 13.9V @ 7.5A  
13.9 - 14.0V @ 5.0A  
14.0 - 14.1V @ 3.8A  
14.1 - 14.4V @ 0.8A  
13.6V Power Supply: 5.0A

Battery Recovery mode: 6V 2.0A (charge time: 2 hours max)

Jump-Start Battery: 11.1V, 3300mAh Lithium

Insulation: IP 65 (water & dust)

Protection:

- ✓ Short circuit protection
- ✓ Overload protection
- ✓ Wrong polarity protection
- ✓ Reverse battery protection
- ✓ Safety timer protection

Packed with:

(1) MW CC-BC1: Battery Clamp Connector

Dimension: 159.1 x 121.7 x 95mm

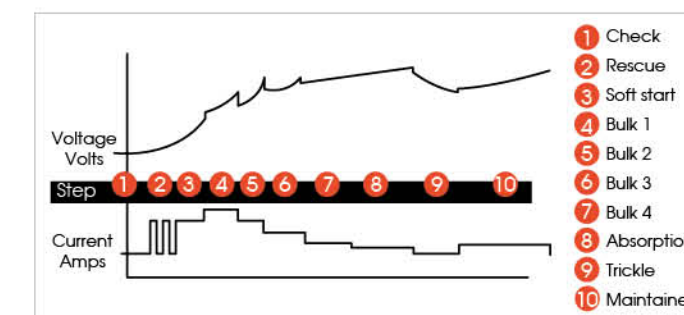
Packing: Individual color giftbox



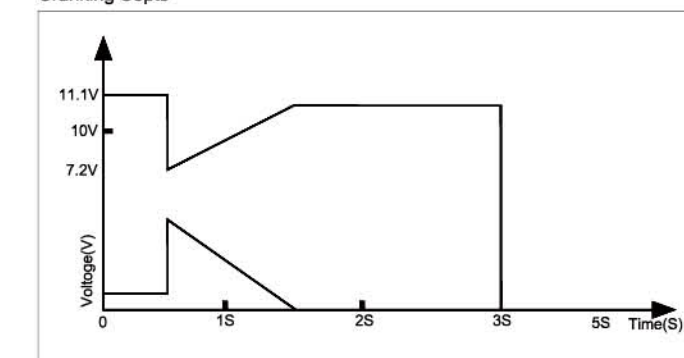
LED indication:

Item	Description
	Standby
<b>888v%</b>	1. Display the charge voltage value XX.XV 2. Display battery capacity percentage 3. Display battery voltage 4. Display "Err" when the battery is damaged.
	12V Battery: <11.5V: empty 11.5 - 12.8V: 1 bar light 12.8 - 13.4V: 2 bar lights 13.4 - 14V: 3 bar lights >14V: 4 bar lights Full: 5 bar lights  6V Battery: <6.2V: empty 6.2 - 6.5V: 1 bar light 6.5 - 6.7V: 2 bar lights 6.7 - 7.0V: 3 bar lights >7.0V: 4 bar lights Full: 5 bar lights
	Flash when charging.
<b>6V</b>	It lights in 6V mode.
	It lights in 12V mode.
	It lights in 12V fast charge mode.
	It lights in the mode of 12V 10A cold condition.
Backlight	Power on

Principle programme representation 6V/ 12V Pb



Cranking Septs





This is our newly developed APP controlled intelligent Car Battery Charger series. MW LF-CC075LCDBT is a 12V/ 24V dual function charger for charging LiFePO4 and Lead Acid batteries for different vehicles & Boats. The whole charging procedure is under the control of MCU. The charger also has the Memory function which enables itself to return to last selected mode automatically when power is switched on.

With the built-in Bluetooth module, user can check and control the charger by smartphone or tablet.

## MW LF-CC075LCDBT

7.5A 12V/ 24V 10 Steps Intelligent Battery Charger for Vehicles & Boats 13.6V Power Supply

With CC/CV Control for LiFePO4 & Lead Acid Battery of Wet, Gel, MF & AGM

Input: 220-240V AC, 50Hz, 1.3A  
Output current: 7.5A (max)  
Charging voltage:  
Lead acid (normal): 14.5/29.0V DC  
Cold/AGM: 14.7/29.4V DC  
LiFePO4: 12.8V/4 cells  
Charging current:  
12V lead acid: 7.5A  
24V lead acid: 3.75A  
LiFePO4: 5A  
13.6V Power Supply: 5.0A  
Insulation: IP 65 (water & dust)

Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection  
✓ Reverse battery protection  
✓ Safety timer protection

Packed with:  
(1)MW CC-BC1: Battery Clamp Connector  
(2)MW CC-ET1: Eyelet Terminal Connector  
Dimension: 251.3 x 108.4 x 61.4mm  
Packing: Individual color giftbox



LCD display



(App control)

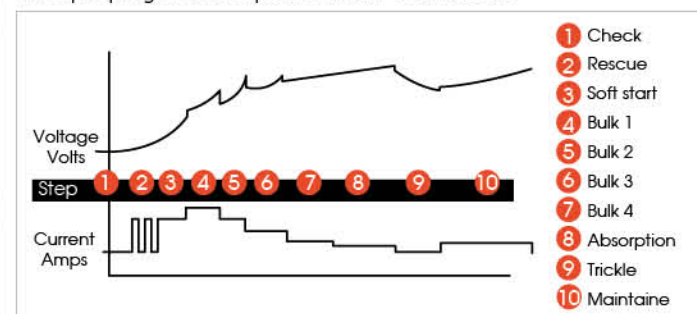
MW LF-CC075BT (Bluetooth version)



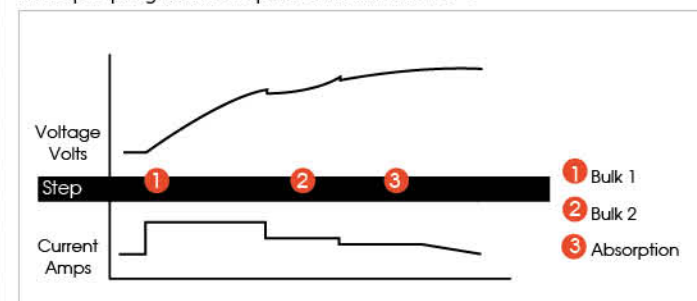
### LCD indication:

Item	Indication	LCD indication
Power On Reset	LCD display flash twice for self-check.	Flashing
Battery not connected		Flashing
Error:	1. Timer>2hours at step 2 and step 3 "Recovery+Soft" start charge. 2. If 12V recover (+) mode <12V after 4hours 3. Timer>15hours at Lithium Bulk charge. 4. Total Timer>40hours at Pb battery modes. 5. Battery voltage>14V, Vbat=1.0-2.0V	Flashing
Connected in reverse polarity		Flashing
Capacity of battery	Flashing with different no. of bars, 5 bars means fully charged. Steady: Full charged after 3sec.	Flashing for charging; On for fully charged
Mode selected: 12V Lead acid battery (regular capacity)		On
Mode selected: cold mode 12V Lead acid battery (regular capacity)		On
Mode selected: 24V Lead acid battery (small capacity)		On
Mode selected: cold mode 24V Lead acid battery (small capacity)		On
LITHIUM 12.8V	Mode selected: Lithium iron phosphate battery	On
RECOVER 12V	Mode selected: Recover 12V Lead acid battery	On
ADVANCED AGM 12V	Mode selected: Advanced AGM battery	On
SMPS 13.6V	Mode selected: Power supply	On

### Principle programme representation 12V/ 24V Pb



### Principle programme representation LiFePO4



## MW LF-CC075LCD

7.5A 12V/ 24V 10 Steps Intelligent Battery Charger for Vehicles & Boats

13.6V Power Supply

With CC/CV Control for LiFePO4 & Lead Acid Battery of Wet, Gel, MF & AGM

Input: 220-240V AC, 50Hz, 1.3A

Output current: 7.5A (max)

Charging voltage:

Lead acid (normal): 14.5/29.0V DC

Cold/AGM: 14.7/29.4V DC

LiFePO4: 12.8V/4 cells

Charging current:

12V lead acid: 7.5A

24V lead acid: 3.75A

LiFePO4: 5A

13.6V Power Supply: 5.0A

Insulation: IP 65 (water & dust)

Protection:

✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection  
✓ Reverse battery protection  
✓ Safety timer protection

Packed with:

(1)MW CC-BC1: Battery Clamp Connector

(2)MW CC-ET1: Eyelet Terminal Connector

Dimension: 251.3 x 108.4 x 61.4mm

Packing: Individual color giftbox

LCD display



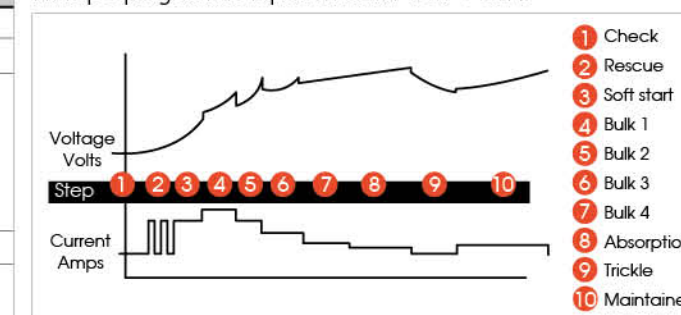
MW LF-CC075A (LED version)



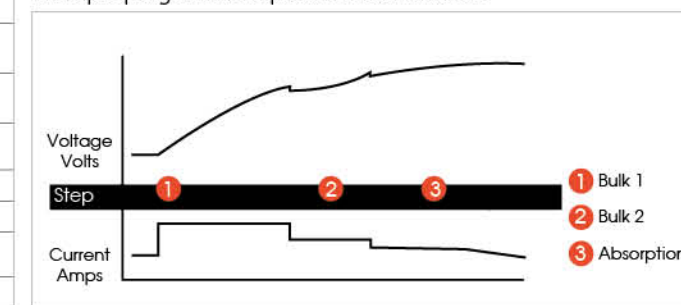
### LCD indication:

Item	Indication	LCD indication
Power On Reset	LCD display flash twice for self-check.	Flashing
Battery not connected		Flashing
Error:	1. Timer>2hours at step 2 and step 3 "Recovery+Soft" start charge. 2. If 12V recover (+) mode <12V after 4hours 3. Timer>15hours at Lithium Bulk charge. 4. Total Timer>40hours at Pb battery modes. 5. Battery voltage>14V, Vbat=1.0-2.0V	Flashing
Connected in reverse polarity		Flashing
Capacity of battery	Flashing with different no. of bars, 5 bars means fully charged. Steady: Full charged after 3sec.	Flashing for charging; On for fully charged
Mode selected: 12V Lead acid battery (regular capacity)		On
Mode selected: cold mode 12V Lead acid battery (regular capacity)		On
Mode selected: 24V Lead acid battery (small capacity)		On
Mode selected: cold mode 24V Lead acid battery (small capacity)		On
LITHIUM 12.8V	Mode selected: Lithium iron phosphate battery	On
RECOVER 12V	Mode selected: Recover 12V Lead acid battery	On
ADVANCED AGM 12V	Mode selected: Advanced AGM battery	On
SMPS 13.6V	Mode selected: Power supply	On

### Principle programme representation 12V/ 24V Pb



### Principle programme representation LiFePO4





This is our newly developed APP controlled intelligent Car Battery Charger series. MW LF-CC040LCDBT is a 6V/ 12V dual function charger for charging LiFePO4 and Lead Acid batteries for different vehicles & Boats. The whole charging procedure is under the control of MCU. The charger also has the Memory function which enables itself to return to last selected mode automatically when power is switched on.

With the built-in Bluetooth module, user can check and control the charger by smartphone or tablet.

## MW LF-CC040LCDBT

4.0A 6V/ 12V 8 Steps Intelligent Battery Charger for Vehicles  
With CC/CV Control for LiFePO4 & Lead Acid Battery of Wet, Gel, MF & AGM

Input: 220-240V AC, 50Hz, 0.6A  
Output current: 4.0A (max)  
Charging voltage:  
Lead acid (normal): 7.3/14.5V DC  
Cold/AGM: 7.4/14.7V DC  
LiFePO4; 12.8V/4 cells  
Charging current:  
6V lead acid: 4.0A (normal)  
12V lead acid: 0.9 (small), 4.0A (normal)  
LiFePO4: 3.0A (normal)  
Insulation: IP 65 (water & dust)  
Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection  
✓ Reverse battery protection  
✓ Safety timer protection

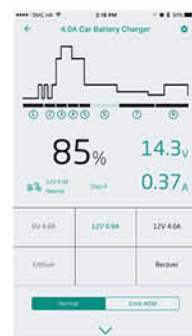
Fixed battery clamp connector  
Dimension: 211.3 x 84.4 x 49mm  
Packing: Individual color giftbox

LCD indication:

Item	Indication	LCD indication
Power On Reset	LCD display flash twice for self-check.	Flashing
	Battery not connected	Flashing
	Error: 1. Timer>2hours at step 2 and step 3 "Recovery+Soft" start charge. 2. If 12V recover (+) mode <12V after 4hours 3. Timer>15hours at Lithium Bulk charge. 4. Total Timer>40hours at Pb battery modes. 5. Battery voltage>14V, Vbat=1.0-2.0V	Flashing
	Connected in reverse polarity	Flashing
	Capacity of battery Flashing with different no. of bars, 5 bars means fully charged. Steady: Full charged after 3sec.	Flashing for charging; On for fully charged
6V	Mode selected: 6V Lead acid battery	On
6V and	Mode selected: cold mode 6V Lead acid battery	On
	Mode selected: 12V Lead acid battery (small capacity)	On
and	Mode selected: cold mode 12V Lead acid battery (small capacity)	On
	Mode selected: 12V Lead acid battery (regular capacity)	On
and	Mode selected: cold mode 12V Lead acid battery (regular capacity)	On
LITHIUM 12.8V	Mode selected: Lithium iron phosphate battery	On
RECOVER 12V	Mode selected: Recover 12V Lead acid battery	On

Bluetooth compatible

LCD display

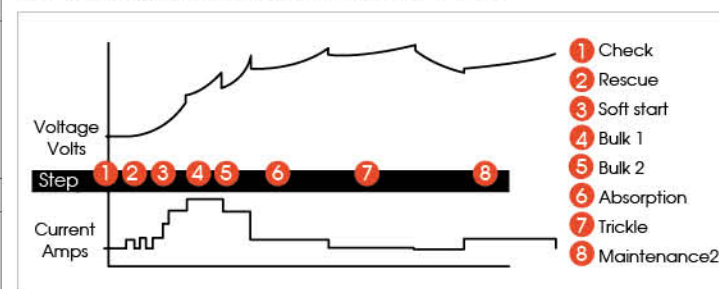


(App control)

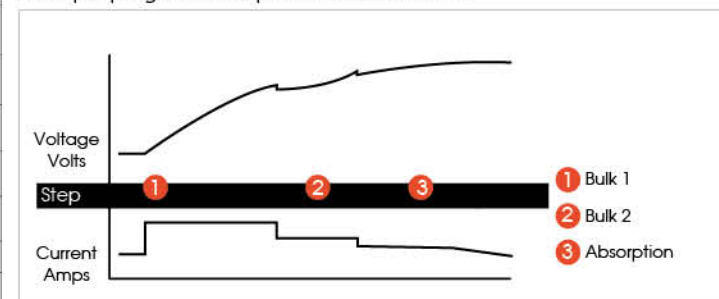
MW LF-CC040BT (Bluetooth version)



Principle programme representation 6V/ 12V Pb



Principle programme representation LiFePO4



## MW LF-CC040LCD

4.0A 6V/ 12V 8 Steps Intelligent Battery Charger for Vehicles

With CC/CV Control for LiFePO4 & Lead Acid Battery of Wet, Gel, MF & AGM

Input: 220-240V AC, 50Hz, 0.6A

Output current: 4.0A (max)

Charging voltage:

Lead acid (normal): 7.3/14.5V DC

Cold/AGM: 7.4/14.7V DC

LiFePO4; 12.8V/4 cells

Charging current:

6V lead acid: 4.0A (normal)

12V lead acid: 0.9 (small), 4.0A (normal)

LiFePO4: 3.0A (normal)

Insulation:

IP 65 (water & dust)

Protection:

- ✓ Short circuit protection
- ✓ Overload protection
- ✓ Wrong polarity protection
- ✓ Reverse battery protection
- ✓ Safety timer protection

Fixed battery clamp connector

Dimension: 211.3 x 84.4 x 49mm

Packing: Individual color giftbox

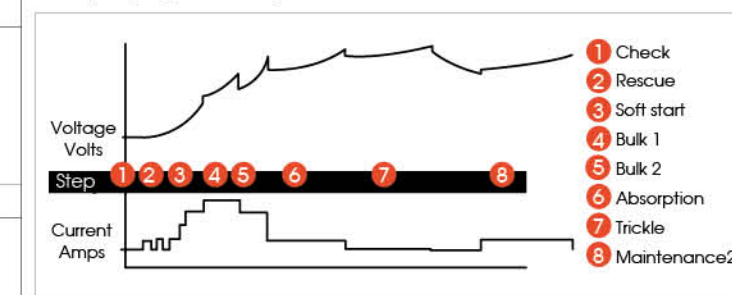
LCD display



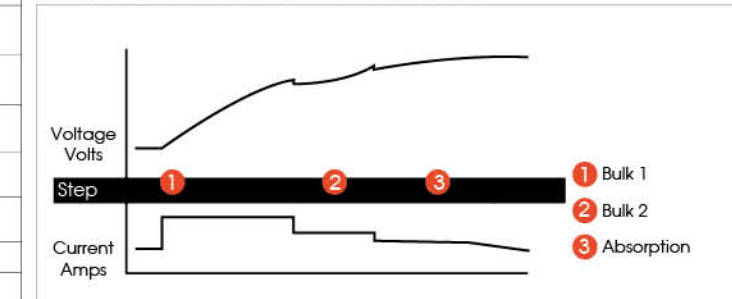
LCD indication:

Item	Indication	LCD indication
Power On Reset	LCD display flash twice for self-check.	Flashing
	Battery not connected	Flashing
	Error: 1. Timer>2hours at step 2 and step 3 "Recovery+Soft" start charge. 2. If 12V recover (+) mode <12V after 4hours 3. Timer>15hours at Lithium Bulk charge. 4. Total Timer>40hours at Pb battery modes. 5. Battery voltage>14V, Vbat=1.0-2.0V	Flashing
	Connected in reverse polarity	Flashing
	Capacity of battery Flashing with different no. of bars, 5 bars means fully charged. Steady: Full charged after 3sec.	Flashing for charging; On for fully charged
6V	Mode selected: 6V Lead acid battery	On
6V and	Mode selected: cold mode 6V Lead acid battery	On
	Mode selected: 12V Lead acid battery (small capacity)	On
and	Mode selected: cold mode 12V Lead acid battery (small capacity)	On
	Mode selected: 12V Lead acid battery (regular capacity)	On
and	Mode selected: cold mode 12V Lead acid battery (regular capacity)	On
LITHIUM 12.8V	Mode selected: Lithium iron phosphate battery	On
RECOVER 12V	Mode selected: Recover 12V Lead acid battery	On

Principle programme representation 6V/ 12V Pb



Principle programme representation LiFePO4





MFI

Notebook Power

# MW LF-CC038A

3.8A 6V/ 12V 8 Steps Intelligent Battery Charger for Vehicles  
With CC/CV Control for LiFePO4 & Lead Acid Battery of Wet, MF, VRLA, AGM & GEL

Input: 220-240V AC, 50Hz, 1.2A  
Output current: 3.8A (max)  
Charging voltage:  
Lead acid (normal): 7.3V/ 14.4V DC  
Cold/AGM: 7.4/14.7V DC  
LiFePO4; 12.8V/4 cells  
Charging current:  
6V lead acid: 0.9A (small), 3.8A (normal)  
12V lead acid: 0.9A (small), 3.8A (normal)  
LiFePO4: 0.9A (small), 3.8A (normal)  
Insulation: IP 65 (water & dust)

Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection  
✓ Reverse battery protection  
✓ Safety timer protection

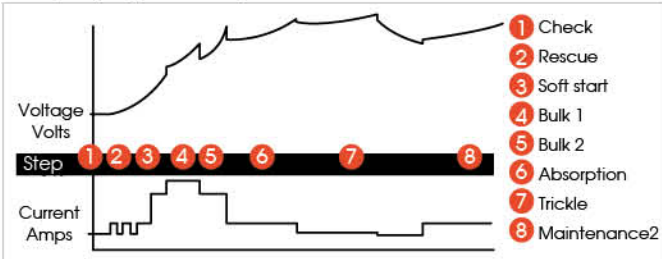
Packed with:  
Fixed battery clamp connector  
Dimension: 203.5 x 74 x 48mm  
Packing: Individual color giftbox



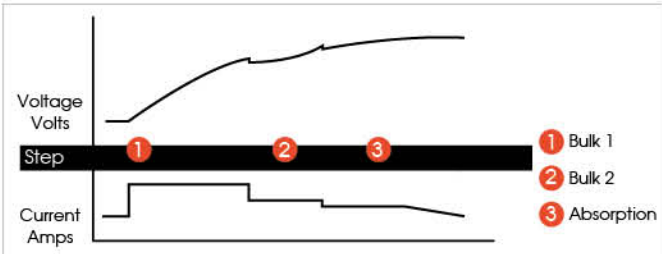
LED indication:

Item	Indication	LED
LED	INDICATION	LED COLOR
Power On Reset	All LED flash 2 times for self-check.	Red Flashing
Stand-by	ON: no battery at Standby. OFF: Battery Charging.	Green
Error(dual color)	Flashing: 1.Timer for lead acid (red ) 2. Timer for Lithium (yellow flash) 3. Total timer (yellow flash) 4. Battery voltage (yellow) 5. Reversed polarity (red flash)	Red & yellow flashing
25%	Flashing Steady OFF: full charged	Red flashing
50%	Flashing Steady OFF: full charged	Orange flashing
75%	Flashing Steady OFF: full charged	Yellow flashing
100%	Flashing Steady: full charged	Green
6V Normal	Mode selected	Red
6V Cold/AGM	Mode selected	Red
12V Normal	Mode selected	Red
12V Cold/AGM	Mode selected	Red
12V Small	Mode selected	Red
12V Small Cold	Mode selected	Red
Lithium	Mode selected	Red
12V Recover(+)	Steady: Mode selected(3sec.) Flashing: Step 1 Steady	Green flashing, Green

Principle programme representation 6V/ 12V Pb



Principle programme representation LiFePO4



This is our newly developed Car Battery Charger series. MW LF-CC015A is a 6V/ 12V dual function charger for charging LiFePO4 and Lead Acid batteries for different vehicles. The intelligent design is able to charge and protect the charger and battery even users are wrongly chose the battery type. With this automatic switch-mode charger, users can simply retain their batteries to the original level, recover slightly sulfated batteries and increase battery life.

MFI

Notebook Power

# MW LF-CC015A

1.5A 6V/ 12V 8 Steps Intelligent Battery Charger for Vehicles  
With CC/CV Control for LiFePO4 & Lead Acid Battery of Wet, MF, VRLA, AGM & GEL

Input: 220-240V AC, 50Hz, 600mA  
Output current: 1.5A (max)  
Charging voltage:  
Lead acid (normal): 7.3V/ 14.4V DC  
Cold/AGM: 7.4/14.7V DC  
LiFePO4; 12.8V/4 cells  
Charging current:  
6V lead acid: 1.5A  
12V lead acid: 1.5A  
LiFePO4: 1.5A  
Insulation: IP 65 (water & dust)

Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection  
✓ Reverse battery protection  
✓ Safety timer protection

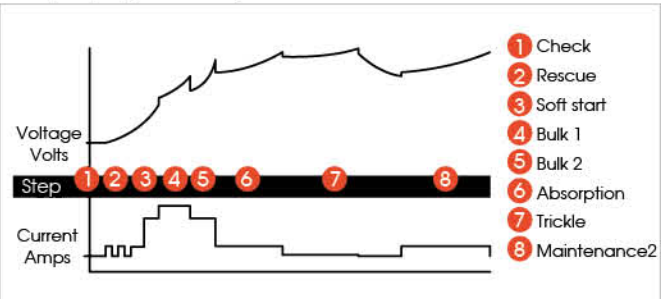
Packed with:  
Fixed battery clamp connector  
Dimension: 174 x 65 x 46.5mm  
Packing: Individual color giftbox



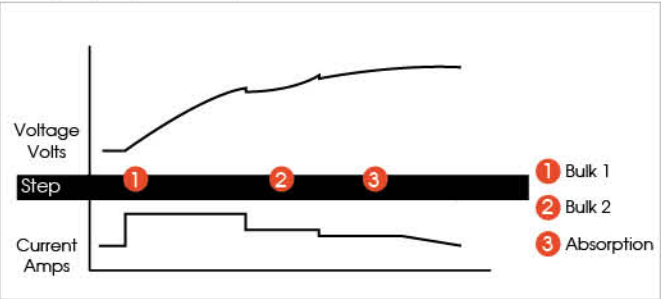
LED indication:

Item	Indication	LED
LED	INDICATION	LED COLOR
Power On Reset	All LED flash 2 times for self-check.	Red Flashing
Stand-by	ON: no battery at Standby. OFF: Battery Charging.	Green
Error(dual color)	Flashing: 1.Timer for lead acid (red ) 2. Timer for Lithium (yellow flash) 3. Total timer (yellow flash) 4. Battery voltage (yellow) 5. Reversed polarity (red flash)	Red & yellow flashing
25%	Flashing Steady OFF: full charged	Red flashing
50%	Flashing Steady OFF: full charged	Orange flashing
75%	Flashing Steady OFF: full charged	Yellow flashing
100%	Flashing Steady: full charged	Green
6V Normal	Mode selected	Red
6V Cold/AGM	Mode selected	Red
12V Normal	Mode selected	Red
12V Cold/AGM	Mode selected	Red
Lithium	Mode selected	Red

Principle programme representation 6V/ 12V Pb



Principle programme representation LiFePO4





This is our newly developed Car Battery Charger series. MW LF-CC008A is a 6V/ 12V dual function charger for charging LiFePO4 and Lead Acid batteries for different vehicles. The intelligent design is able to charge and protect the charger and battery even users are wrongly chose the battery type. With this automatic switch-mode charger, users can simply retain their batteries to the original level, recover slightly sulfated batteries and increase battery life.

## MW LF-CC008A

0.8A 6V/ 12V 7 Steps Intelligent Battery Charger for Vehicles  
With CC/CV Control for LiFePO4 & Lead Acid Battery of Wet, MF, VRLA, AGM & GEL

Input: 220-240V AC, 50Hz, 300mA  
Output current: 0.8A (max)  
Charging voltage:  
Lead acid: 7.3V/ 14.4V DC  
LiFePO4; 12.8V/4 cells  
Charging current:  
6V lead acid: 0.8A  
12V lead acid: 0.8A  
LiFePO4: 0.8A  
Insulation: IP 65 (water & dust)

Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection  
✓ Reverse battery protection  
✓ Safety timer protection

Fixed battery clamp connector  
Packed with:

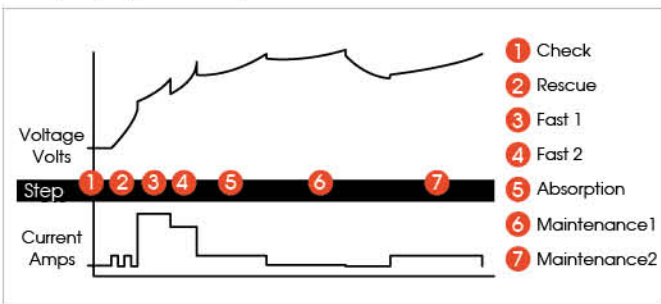
Dimension: 107 x 63 x 34mm  
Packing: Individual color giftbox



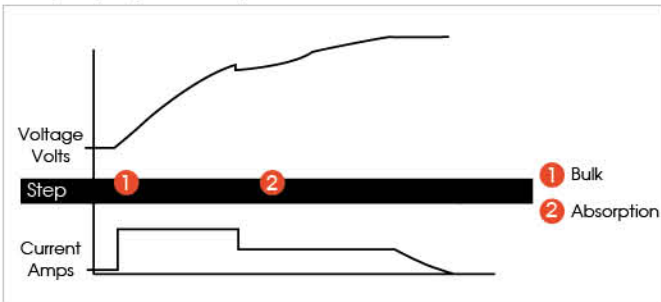
### LED indication:

LED	INDICATION	LED COLOR
Power On Reset	All LED flash 2 times for self-check.	Red Flashing
Stand-by	ON: no battery at Standby. OFF: Battery Charging.	Green
Error(dual color)	Flashing: 1.Timer for lead acid (red ) 2. Timer for Lithium (yellow flash) 3. Total timer (yellow flash) 4. Battery voltage (yellow) 5. Reversed polarity (red flash)	Red & yellow flashing
25%	Flashing Steady OFF: full charged.	Red flashing
50%	Flashing Steady OFF: full charged.	Orange flashing
75%	Flashing Steady OFF: full charged.	Yellow flashing
100%	Flashing Steady: full charged	Green flashing
6V	Mode selected	Red
12V	Mode selected	Red
Lithium	Mode selected	Red

Principle programme representation 6V/ 12V Pb



Principle programme representation LiFePO4



This is our newly developed Battery Charger series. MW CC10A is an 7-step Battery Charger with 6V, 12V & 24V voltages for different transportation such as motorcycles, cars, boats and trucks. With this automatic switch-mode charger, users can simply retain their batteries to the original level, recover slightly sulfated batteries, charge in cold weather, rescue, and increase battery life.

## MW CC10A

10A 6V, 12V & 24V 7 Steps Intelligent Battery Charger for Vehicles & Boats  
With CC/CV Control for Lead Acid Battery of Wet, MF, VRLA, AGM & GEL

Input: 220-240V AC, 50Hz, 160W  
Output current: 10.0A (max)  
Charging voltage: 7.25V/ 7.45V/ 14.5V/ 14.9V/ 29V/ 29.8V  
Charging current:  
6V battery: 1.0A  
12V battery: 1.0A, 5.0A & 10.0A  
24V battery: 1.0A & 5.0A

Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection

Packed with:  
(1) MW CC-BC1: Battery Clamp Connector  
(2) MW CC-ET1 : Eyelet Terminal Connector

Dimension: 257.4 x 161.9 x 172.5mm  
Packing: Individual color giftbox



Foldable handle



EU version

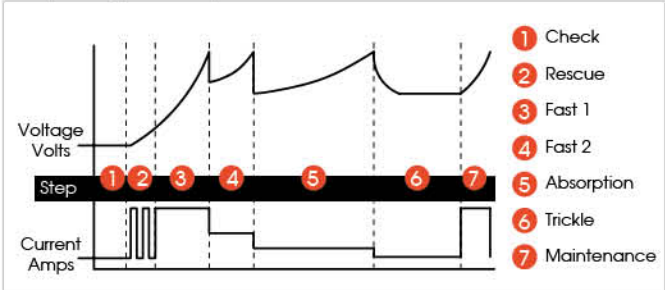
UK version

SAA version

### LED indication:

	LED	INDICATION	LED COLOR
1	Standby	Stand- By LED Light	Red
2	6V	6V battery indication (automatic identify)	Green
3	12V	12V battery indication (automatic identify)	Green
4	24V	24V battery indication (automatic identify)	Green
5	1A	1.0A charge current mode (mode switch select)	Green
6	5A	5.0A charge current mode (mode switch select)	Green
7	10A	10.0A charge current mode (mode switch select)	Green
8	Cold	Low temperature mode (mode switch select)	Green
9	Refresh	Battery repair mode	Red
10	0-35%	Charge capacity 0-35%	Current: Green flash Complete: Green
11	35-70%	Charge capacity 35-70%	Current: Green flash Complete: Green
12	70-100%	Charge capacity 70-100%	Current: Green flash Full: Green
13	Wrong polarity	wrong polarity indication	Red
14	Fault	Bad battery indication. Voltage and current of battery do not change after the product works for 10mins in REFRESH mode	Red flash

Principle Programme representation





## MW CC04A

4A 6V & 12V 7 Steps Intelligent Battery Charger for Vehicles & Boats  
With CC/CV Control for Lead Acid Battery of Wet, MF, VRLA, AGM & GEL

Input: 220-240V AC, 50Hz, 1300mA  
Output current: 4.0A (max)  
Charging voltage: 7.3V/ 14.4V/ 14.7V  
Charging current:  
6V battery: 0.8A  
12V battery: 0.8A & 4.0A  
Protection: IP 65 (dust & water)

Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection

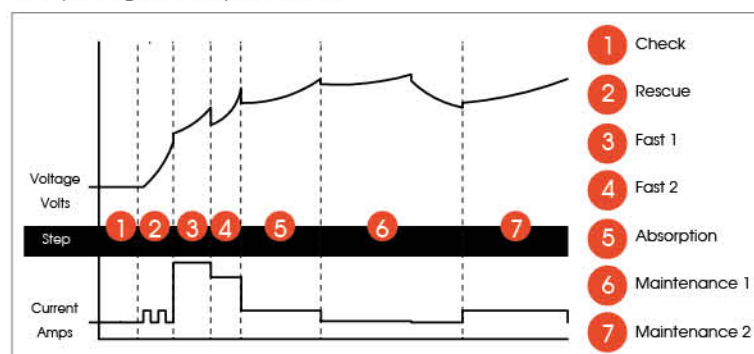
Dimension: 194 x 68 x 47mm  
Packing: Individual color gift box



### LED indication:

LED position	INDICATION	LED COLOR
1	Standby	Standby LED Light
2	6V	6V battery indication
3	12V/ 0.8A	12V/ 0.8A battery indication
4	12V/ 4.0A	12V/ 4.0A battery indication
5	12V/ 4.0A cool	12V/ 4.0A cool battery
6	Charging	charging
7	Full	Charge full indication
8	Error	wrong polarity indication
9	Bad battery or unsuited battery	Battery voltage <3.7V or Battery voltage >15V 4 Red LED Flash

### Principle Programme representation



## MW CC01A

1A 6V & 12V 6 Steps Intelligent Battery Charger for Vehicles & Boats  
With CC/CV Control for Lead Acid Battery of Wet, MF, VRLA, AGM & GEL

Input: 220-240V AC, 50Hz, 400mA  
Output current: 1.0A (max)  
Charging voltage: 7.3V/ 14.4V  
Charging current:  
6V battery: 1.0A  
12V battery: 1.0A  
Protection: IP 65 (dust & water)

Protection:  
✓ Short circuit protection  
✓ Overload protection  
✓ Wrong polarity protection

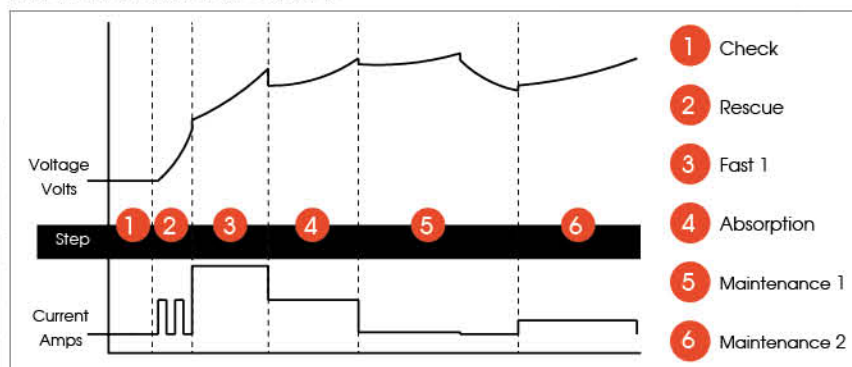
Dimension: 69 x 43 x 46mm  
Packing: Individual color giftbox



### LED indication:

LED	INDICATION	LED COLOR
1	Standby	Stand-By LED Light
2	6V	6V battery indication
3	12V	12V battery indication
4	Charge	Charging
5	Charge full	Charge full indication
6	Error	wrong polarity indication

### Principle Programme representation



This is our newly developed Lead Acid battery chargers. MW 606HC is for 6V charging and MW 1210HC is designed for 12V.

## MW 606HC

Tiny 6V Lead Acid Battery Charger

Input: 100-240V AC, 60/50Hz  
Charging current: 600mA  
Charging voltage: 6.0V  
Float output voltage: 6.8-7.2V  
Bulk charge mode voltage: 3.0-6.8V  
Packed with:  
(1) 8X-01E/N2  
(2) Plug E

Dimension: 68.4 x 38.7 x 68.4mm  
Packing: Individual color giftbox  
LED indication:

Status	LED
Connect to Power	Red On
Connect to power and battery	Red Off
Completed charging	Red On



Plug E



## MW 1210HC

Tiny 12V Lead Acid Battery Charger

Input: 100-240V AC, 60/50Hz  
Charging current: 1000mA  
Charging voltage: 12.0V  
Float output voltage: 14.4V  
Bulk charge mode voltage: 14.0V  
Packed with:  
(3) 8X-01E/N2  
(4) Plug E

Dimension: 76.5 x 42.4 x 72.2mm  
Packing: Individual color giftbox  
LED indication:

Status	LED
Connect to Power	Red On
Connect to power and battery	Red Off
Completed charging	Red On



Plug E





## MW iDA150V

150W DC to AC inverter with 2.1Amp USB Outlet

Input voltage: 12-13.8V DC  
Output voltage:  
Output (AC): 230V AC, 50Hz, 150W (max.)  
AC output wave: Non-Sinusoidal  
Output (USB): 5V DC, 2400mA  
✓ Low voltage protection  
✓ Over voltage protection  
✓ Over power protection  
✓ Over temperature protection

LED indication:  
USB: Green power LED  
Socket: normal: blue LED; malfunction: LED off  
Dimension: Ø70 x 166mm  
Packing: Individual clamshell blister

\*Contact our sales person for other sockets to different countries



Schuko socket

MW iDA150U  
(VDE socket)



## MW UDA150

150W DC to AC Inverter with USB Outlet & Cigarette Lighter Socket

Input voltage: 12-13.8V DC  
Output voltage:  
Output (AC): 230V AC, 50Hz, 150W (max.)  
Output (USB): 5V DC, 500mA  
Output (Car socket): 12V DC, 1000mA  
✓ Over-current protection  
✓ Low battery protection  
✓ Over power protection  
✓ Over voltage protection  
✓ Over heat protection

LED indication: Power LED  
Dimension: 150 x 93.58 x 51mm  
Packing: Individual clamshell blister



Cigarette lighter socket

USB outlet

VDE socket



## MW DA300

300W DC to AC Inverter with 2 USB Outlets

Input voltage: 12V DC, 30A  
Output voltage:  
Output (AC): 230V AC, 50Hz, 1300mA  
Output power (AC): 300W (max.)  
Output (USB): 5V DC, 1500mA (max for 2 USB ports)  
✓ Over-current protection  
✓ Low battery protection  
✓ Over power protection  
✓ Over voltage protection  
✓ Over heat protection  
Dimension: 137 x 105 x 54mm  
Packing: Individual clamshell blister

LED indication:

Status	LED indication
Power	Green
Over-current	Red
Input low voltage	Red
Short circuit	Red
Overload	Red
Over temperature	Red



VDE socket

2 USB outlets



# Battery Charger & Powerbank

Notes:

Powerbank — P.98-101

Universal CCCV Battery Chargers — P.101-102

Ni-Cd/ Ni-MH Battery Chargers — P.103-104



## MW BU20-22C

### 2200mAh Slip-In Pocket Powerbank

Input voltage: 5V DC  
Input port: Micro USB  
Output voltage: 5V DC  
Output current: 1A  
Pack with: MW CB18-1 (0.2m)  
Built-In battery:  
1pc 18650 battery  
Capacity range:  
2200mAh - 2750mAh  
LED indication:  
Power LED Blue  
Dimension: 95 x 40 x 22mm  
Packing: Individual clamshell blister



## MW BU22-66C

### 6600mAh All-In-One Compact Powerbank

Input voltage: 5V DC  
Input port: Micro USB  
Output voltage: 5V DC  
Output current: 2A (Shared by 2)  
**MW BU26 (QC3.0 version)**  
5V/3A (shared by 2)  
Pack with: MW CB18-1 (0.2m)  
Built-In battery:  
3pc 18650 battery  
Capacity range:  
6600mAh - 8250mAh  
LED indication:  
Power LED Blue  
Dimension: 97.5 x 64 x 24mm  
Packing: Individual clamshell blister



## MW BU21-44C

### 4400mAh All-In-One Compact Powerbank

Input voltage: 5V DC  
Input port: Micro USB  
Output voltage: 5V DC  
Output current: 1A  
Pack with: MW CB18-1 (0.2m)  
Built-In battery:  
2pc 18650 battery  
Capacity range:  
4400mAh - 5500mAh  
LED indication:  
Power LED Blue  
Dimension: 97.5 x 51 x 24mm  
Packing: Individual clamshell blister



## MW BU23-88C

### 8800mAh All-In-One Compact Powerbank

Input voltage: 5V DC  
Input port: Micro USB  
Output voltage: 5V DC  
Output current: 3.4A (Shared by 2)  
**MW BU27 (QC3.0 version)**  
5V/3A (shared by 2)  
Pack with: MW CB18-1 (0.2m)  
Built-In battery:  
4pc 18650 battery  
Capacity range:  
8800mAh - 11000mAh  
LED indication:  
Power LED Blue  
Dimension: 97.5 x 81 x 24mm  
Packing: Individual clamshell blister





## MW BU18GS-104C



### 10400mAh Dual Output Heavy Duty Powerbank

Input: 5.0V DC  
Input port: Micro USB  
Output voltage: 5.0V DC  
Output: 3.4A shared by 2  
Pack with: MW CB18 -1 (0.2m)  
Built in battery:  
4pcs Samsung Li-ion batteries/ China batteries

Features:  
✓ Able fully charge iPhone, tablet PCs & other mobile devices  
✓ Capable to charge & output at the same time  
✓ CC/CV control  
✓ Over discharge protection  
✓ Over charging protection  
✓ Short circuit protection  
Dimension: 100 x 84 x 26.2mm  
Packing: Individual clamshell blister

**Samsung Batteries**  
available as option



4 stages of capacity are shown by the LEDs



The LED will flash during charging



**GS Approved**



## MW BU16GS-52C



### 5200mAh All in One Powerbank

Input: 5.0V DC  
Input port: Micro USB  
Output voltage: 5.0V DC  
Output: 2.4A shared by 2  
Pack with: MW CB18 -1 (0.2m)  
Built in battery:  
2pcs Samsung Li-ion batteries/ China batteries

Features:  
✓ Able fully charge iPhone, tablet PCs & other mobile devices  
✓ Capable to charge & output at the same time  
✓ CC/CV control  
✓ Over discharge protection  
✓ Over charging protection  
✓ Short circuit protection  
Dimension: 100 x 62 x 23.8mm  
Packing: Individual clamshell blister

**Samsung Batteries**  
available as option



4 stages of capacity are shown by the LEDs



The LED will flash during charging



**GS Approved**



## MW BU15GS-26C



### 2600mAh Slip in Pocket Powerbank

Input: 5.0V DC  
Input port: Micro USB  
Output voltage: 5.0V DC  
Output: 1.0A  
Pack with: MW CB18 -1 (0.2m)  
Built in battery:  
1pc Samsung Li-ion batteries/ China batteries

Features:  
✓ Able fully charge iPhone & other mobile devices  
✓ Capable to charge & output at the same time  
✓ CC/CV control  
✓ Over discharge protection  
✓ Over charging protection  
✓ Short circuit protection  
Dimension: 100 x 39 x 22mm  
Packing: Individual clamshell blister

**Samsung Batteries**  
available as option



4 stages of capacity are shown by the LEDs



The LED will flash during charging



**GS Approved**



## MW BUAA4



### Tiny Emergency Powerbank

Input: 5.0V DC  
Output voltage: 5.0V DC  
Output: 800mA

Battery type:  
Alkaline (Blue LED) & Rechargeable (Green LED)

Press the power button to choose battery type

\* Able fully charge iPhone & other mobile devices

Dimension: 79 x 34 x 34mm

Packing: Individual clamshell blister



Alkaline



Rechargeable



4 stages of capacity are shown by the LEDs



4pcs AA-size Alkaline/rechargeable batteries



## MW I319



Universal CCCV/ ΔV Charger for Li-ion battery & Ni-Cd/ Ni-MH battery  
w/ 2.1 Amp USB Outlet for Torch light & Camcorder

- Adjustable contact
- Fit for different cylinder-shape Li-ion battery (Lithium 14500/18500/18650/17670/17500/16650/22650)
- Fit for charging 1 or 2pcs AA/AAA Ni-Cd/ Ni-MH battery

Input: 5V DC (Micro USB)/ 2.1A

Package includes: MW CB18

Dimension: 110.9 x 48x 27.3mm

Packing: Individual clamshell blister



MW CB18



MW 6FU21GS

	Charging for battery ( with AC input)	Charging for battery ( with PC USB input)
USB output	5V/2100mA	5V/500mA or below
No USB loading	3.7V*2/1000mA 1.4V*2/1000mA	3.7V/250mA 1.4V*2/250mA
USB output(<1000mA)	3.7V*2/500mA 1.4V*2/500mA	0mA
USB output(>1000mA)	0mA	0mA

Option:  
2.1A power adaptor  
Contact our sales person for details





## MW I316



Universal CCCV/  $\Delta V$  Charging Docking for Li-polymer/  
Li-ion battery & Ni-Cd/ Ni-MH battery w/ 1 Amp USB  
Outlet for Camera & Camcorder

- Adjustable contact
- Flexible mounting design
- Fit for different sizes of Li-polymer/Li-ion battery
- Fit for charging 2pcs AA/AAA Ni-Cd/ Ni-MH battery

Input : 5V DC (Micro USB)/1A

Package includes: MW CB18

Dimension: 106.5 x 55 x 22.1mm

Packing: Individual clamshell blister



MW CB18



MW FU10

Charge Li-polymer/  
Li-ion battery or AA/AAA  
Ni-Cd/ Ni-MH battery(ies)  
**SEPARATELY**

Option:  
1.0A power adaptor  
Contact our sales person for details



## MW I318



Universal CCCV/  $\Delta V$  Charging Docking for Li-polymer/Li-ion battery & Ni-Cd/  
Ni-MH battery w/ USB Outlet and LCD Panel

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

- Adjustable contact (at the back)
- Flexible mounting design
- Fit for different sizes of Li-polymer/ Li-ion battery
- Fit for charging 2pcs AA/ AAA Ni-Cd/ Ni-MH battery
- Provide emergency power as power bank  
by using battery(ies) from the slots
- Slide switch for turn on USB output port
- Working status is shown on LCD panel

Input: 100-240V AC, 60/ 50Hz & 12V DC

Charging current: (for Li-polymer/ Li-ion battery)

3.7V DC /1000mA; 7.4V DC /700mA

Charging current: (for Ni-Cd/ Ni-MH battery)

2.4V DC, 1000mA (fast charge)/100mA (Trickle charge)

USB output:

5V DC/1000mA (connected to power source)

5V DC/800mA (by external battery(ies))

Dimension: 120 x 60 x 31mm

Packing: Individual clamshell blister



LCD indication:  
• Charging battery type  
• Charge/ discharge status  
• "on/ off" of USB output port  
• Charging voltage

Combo included:  
MW 3K10GS  
MW CP1



## MW 6289



9V Ni-Cd/ Ni-MH Battery Charger w/ USB Outlet

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input voltage: 100-240V AC, 60/50Hz or 5V DC

Charging current: (Block 9V):

2x70mA

USB output:

5V DC/ 1000mA

When USB output loads over 500mA,

no charging current for Block 9V

When USB output loads below 500mA,

charging current for Block 9V keeps unchanged



MW FU10



MW CB18

LED indication:  
For Block 9V:  
Red LED (fast charge)/ Green LED (trickle charge)  
For USB output:  
Blue power LED  
Dimension: 85 x 43 x 18mm  
Package includes: 1pc MW CB18 (cable)  
1pc MW FU10GS (adaptor)  
Packing: Individual clamshell blister



Below MW6882 & MW 6880 are our newly developed Universal charger for Ni-MH/Ni-Cd batteries.

## MW 6882

Multiple-Channel Ni-MH/Ni-Cd Battery Charger with LCD display

Input voltage: 100-240V AC 50/60Hz

USB Output: 5V DC, 1000mA

Fit for Charging:

6 PCS compatible channel of AA/AAA/C/D

2 port of 9V block

Dimension: 180 x 143.5 x 53mm

Packing: Individual color giftbox



USB Output  
5V/1A



## MW 6880

Universal Multiple-Channel Ni-MH/Ni-Cd charger w/ 1 USB Outlet

Input voltage: 100-240V AC, 50/60Hz

USB output current: 5V DC/1000mA

Fit for Charging:

6 PCS compatible channel of AA/AAA/C/D

2 port of 9V block

Dimension: 143.5 x 180 x 54.5mm

Packing: Individual color giftbox



USB Output  
5V/1A



	Without USB Output	With USB Output Current >500mA
AAA size	1000mA	500mA
AA size	1000mA	500mA
C or D size	1000mA	500mA
9V	30mA	15mA



## MW 1290GS



Ni-Cd/ Ni-MH Battery Charger  
w/ Built-in Switching Power

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Charging current:

2 x 2.8V/ 500mA (AA/AAA), or

2 x 9V/ 13mA (Block 9V)

LED indication:

For AA/AAA

Red LED (fast charge)/ Green LED (trickle charge)

For Block 9V

Red LED

Dimension: 106.5 x 69.6 x 29mm

Packing: Individual clamshell blister



## MW 1291GS



Ni-Cd/ Ni-MH Battery Charger  
w/ Built-in Switching Power

ErP 2nd stage compliance  
CEC efficiency: Level ⑤  
MEPS: V

Input voltage: 100-240V AC, 60/50Hz

Charging current:

For AA sized: 2 x 2.8V/ 200mA

For AAA sized:

For Block 9V: 2 x 9V/ 13mA

LED indication:

Power LED

Dimension: 106.5 x 69.6 x 29mm

Packing: Individual clamshell blister



## MW 1290N



Universal Ni-MH/Ni-Cd Battery Charger  
w/ Built -in AC/DC adaptor

Input voltage: 100-240V AC, 50/60Hz

Output: 1.4V\* 1-4cells\*500mA (AAA/AA size )

Channel: 4 PCS compatible channel of AA/AAA

Dimension: 106.5 x 69.6 x 29mm

Packing: Individual clamshell blister



# Gaming Accessories

Notes:

Gaming

P.106



Below are our All-New developed Nintendo Switch gaming accessories series.

## MW NSBU22-75C

All-New Nintendo Switch dedicated Powerbank  
w/ Type-C Cable & USB outlet

Input voltage: 5V DC  
Input port: Micro USB  
Capacity: 7500mAh  
Output (1): 5V DC/1.5A  
Outlet: (1) 1.8m Type-C (fixed cable)  
(2): USB A  
Capacity range: 7500mAh – 8250mAh  
LED indication: Power LED Blue  
Dimension: 110 x 64 x 24mm  
Packing: Individual clamshell blister

**New**



## MW NS39A

All-New 39W Plug-in Type-C charger for Nintendo Switch

ErP 2nd stage compliance

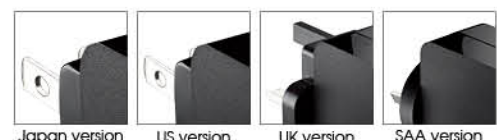
CEC efficiency: Level Ⅴ

MEPS: VI

Input voltage: 100-240V AC, 50/60Hz  
Output voltage: 5/15V DC  
Output current: 5V @1.5A  
15V @2.6A

Output plug: Type-C (1m fixed cable)  
LED indication: Power LED Blue  
Dimension: 60.5 x 60.5 x 35.3mm  
Packing: Individual clamshell blister

**New**



## MW NS39D

All-New 12-24V DC/DC Type-C charger  
for Nintendo Switch

Input voltage: 12-24V DC  
Output voltage: 5/ 15V DC  
Output current: 5V @3A  
Output plug: Type-C (1m fixed cable)  
LED indication: Power LED Blue  
Dimension: 69 x 48 x 28.6mm

**New**



# Multiple Output Power

Notes:

80W Universal Power Supply ——— P.108

3.6W-36W AC/DC Adaptor ——— P.108-110

Multiple  
Output Power



Below MW PS235 is a precise, adjustable power supply of both output current and voltage. Select the 2 dial switches are representing current and voltage options. By turning the current dial for current adjustment while turning the voltage dial for voltage selection. The corresponding voltage, current, in CC or CV status is all shown on the panel.

## MW PS235

80W Universal Power Supply w/ CC/CV Output

ErP 2nd stage compliance

CEC efficiency: Level V

MEPS: V

Input voltage: 100-240V AC, 60/ 50Hz  
Output voltage (1): 0.0- 16.0V DC  
Output current (1): 0.0- 5.0A (max)  
Output voltage (2): 0- 27.0V DC  
Output current (2): 0.0- 3.0A (max)  
Output voltage (3): 0.0- 36.0V DC  
Output current (3): 0.0- 2.2A (max)  
Accuracy of the Voltage: +/- (1% + 2 counts)  
Accuracy of the Current: +/- (1%+2 counts)  
Resolution of voltage: 0.1V  
Resolution of Current: 0.01A  
LED indication:  
Function LEDs Green  
Packed with:  
MW CC-BC3  
Dimension: 281.5 x 132 x 62mm  
Packing: Individual color giftbox



## MW 3A03GS

3.6W AC/DC Switching Adaptor

ErP 2nd stage compliance

CEC efficiency: Level V

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 3.0/ 4.5/ 5.0/ 6.0V DC, 600mA  
7.5V DC, 480mA  
9V DC, 400mA  
12V DC, 300mA  
Output Current: 300mA (max)  
With Power LED  
Dimension: 69 x 39 x 31mm  
Packing: Individual color giftbox

Optional: Add-on USB outlet

FUSB: 5V DC/600mA (for USB Type A)

FMUSB: 5V DC/600mA (for Micro USB)

FNUSB: 5V DC/600mA (for Mini USB)

Contact our sales person to check out the compatible products.



FNUSB

FUSB

FMUSB



## MW 3N06GS

7.2W AC/DC Switching Adaptor

ErP 2nd stage compliance

CEC efficiency: Level V

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 3.0/ 4.5/ 5.0/ 6.0/ 7.5/ 9.0/ 12V DC  
Output Current: 600mA (max)  
With Power LED  
Dimension: 69 x 39 x 31mm  
Packing: Individual color giftbox  
Optional: Add-on USB outlet  
FUSB: 5V DC/600mA (for USB Type A)  
FMUSB: 5V DC/600mA (for Micro USB)  
FNUSB: 5V DC/600mA (for Mini USB)  
Contact our sales person to check out the compatible products.



FUSB

FMUSB

FNUSB



## MW 3N06HT

7.2W AC/DC Switching Adaptor with 4 Changeable Input Plugs



ErP 2nd stage compliance

CEC efficiency: Level V

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 3.0/ 4.5/ 5.0/ 6.0/ 7.5/ 9.0/ 12V DC  
Output Current: 600mA (max)  
With 4 detachable input plugs (U, UK, SAA, AF)  
With Power LED  
Dimension: 69 x 74 x 41mm  
Packing: Individual color giftbox  
Optional: Add-on USB outlet  
FUSB: 5V DC/600mA (for USB Type A)  
FMUSB: 5V DC/600mA (for Micro USB)  
FNUSB: 5V DC/600mA (for Mini USB)  
Contact our sales person to check out the compatible products.



## MW 3K10GS

12W AC/DC Switching Adaptor



ErP 2nd stage compliance

CEC efficiency: Level V

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 3.0/ 4.5/ 5.0/ 6.0/ 7.5/ 9.0/ 12V DC  
Output Current: 1000mA (max)  
With Power LED  
Dimension: 75 x 43 x 32mm  
Packing: Individual color giftbox  
Optional: Add-on USB outlet  
FUSB: 5V DC/1000mA (for USB Type A)  
FMUSB: 5V DC/1000mA (for Micro USB)  
FNUSB: 5V DC/1000mA (for Mini USB)  
Contact our sales person to check out the compatible products.



## MW 3K10HT

12W AC/DC Switching Adaptor with 4 Changeable Input Plugs



ErP 2nd stage compliance

CEC efficiency: Level V

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 3.0/ 4.5/ 5.0/ 6.0/ 7.5/ 9.0/ 12V DC  
Output Current: 1000mA (max)  
With 4 detachable input plugs (U, UK, SAA, AF)  
With Power LED  
Dimension: 69 x 74 x 42mm  
Packing: Individual color giftbox  
Optional: Add-on USB outlet  
FUSB: 5V DC/1000mA (for USB Type A)  
FMUSB: 5V DC/1000mA (for Micro USB)  
FNUSB: 5V DC/1000mA (for Mini USB)  
Contact our sales person to check out the compatible products.



## MW 3R15GS

18W AC/DC Switching Adaptor



ErP 2nd stage compliance

CEC efficiency: Level V

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage: 3.0/ 4.5/ 5.0/ 6.0/ 7.5/ 9.0/ 12V DC  
Output Current: 1500mA (max)  
With Power LED  
Dimension: 82 x 52 x 36mm  
Packing: Individual color giftbox  
Optional: Add-on USB outlet  
FUSB: 5V DC/1500mA (for USB Type A)  
FMUSB: 5V DC/1500mA (for Micro USB)  
FNUSB: 5V DC/1500mA (for Mini USB)  
Contact our sales person to check out the compatible products.





## MW 3G15GS

24W AC/DC Switching Adaptor

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage:  
9.0/ 12/ 13.5/ 15/ 18/ 20/ 24V DC  
Output Current: 9.0/ 12/ 13.5/ 15V DC, 1.5A  
18/ 20V DC, 1.2A  
24V DC, 1.0A  
With Power LED  
Dimension: 88 x 51 x 42mm  
Packing: Individual color giftbox



## MW 3IP25GS

27W AC/DC Switching Adaptor

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage:  
3.0/ 4.5/ 5.0/ 6.0/ 7.5/ 9.0/ 12V DC  
Output Current: 2250mA (max)  
With Power LED  
Dimension: 88 x 51 x 42mm  
Packing: Individual color giftbox



## MW 3I25GS

27W AC/DC Switching Adaptor

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage:  
3.0/ 4.5/ 5.0/ 6.0/ 7.5/ 9.0/ 12V DC  
Output Current: 2250mA (max)  
With Power LED  
Dimension: 96 x 50 x 30mm  
Packing: Individual color giftbox



## MW 3H36GS

36W AC/DC Switching Adaptor

ErP 2nd stage compliance

CEC efficiency: Level ⑤

MEPS: V

Input Voltage: 100-240V AC, 60/ 50Hz  
Output Voltage:  
5.0/ 6.0/ 7.5/ 9.0/ 12.0/ 13.5/ 15V DC  
Output Current: 3000mA (max)  
With Power LED  
Dimension: 110 x 50 x 30mm  
Packing: Individual color giftbox



## TRANSFORMING THE WORLD WITH INTERNET OF THINGS SOLUTIONS

With Minwa IOT program, we provide one-stop solution  
To help you catch the next big wave.



### Present Status

Mechanical & Plastic Housing,  
Hardware, Firmware,  
Software and Certification  
have all been processed  
and are market ready.



### Manufacturing

Our pursuance of  
excellence in both of our  
products and services  
have lead us forward  
over the past 40 years.



### Connectivity

Our program with an open  
proprietary platform with  
connectivity to third parties'  
platform such as Amazon  
Echo and Google Home.



### Big Data

Direct and transparent,  
Minwa holds no data and  
will handle all data from the  
platforms then give it to you.



### Technical support

Our well-equipped  
software & hardware  
engineering team are  
ready to serve.



### Security

As we are using AWS  
server with receipt,  
you are all-around  
network secured.



### Customization

You can tailor-made  
all UI as per your preference.



### All-In-One App

With our All-In-One APP, you can easily  
control multiple products by clicks.

With our 41 years' experience in manufacturing power related products, together with our  
the strong software partner, Minwa provides multiple solutions for you to start with us.

Different technology has its pros & cons, contact us at [sales@minwa.com.hk](mailto:sales@minwa.com.hk) today for  
a tailor solution for you.

Type	Countries
Type A	USA, Mexico, Canada & Japan
Type E	France, Slovakia & Czech Republic
Type F	Germany, Norway, Spain, Netherlands & Russia
Type G	Britain, Ireland & Singapore
Type J	Switzerland
Type K	Denmark & Finland
Type L	Italy



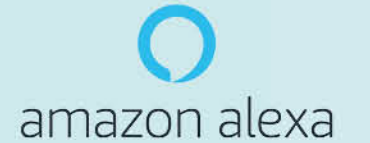
# Smart Home Automation by Minwa

With our 41 years' experience in manufacturing power related products, together with our the strong software partner, Minwa provides multiple solutions for you to start with us.

## Minwa Home-Automation Mobile Application



MINWA HA APP





# MW WFAS01

Wireless Remote Control Plug w/ Wi-Fi Technology

ErP 2nd stage compliance

CEC efficiency: VI

MEPS: VI

Input voltage: 220-240V AC, 50/60Hz

Input power: 3500W (max)

Input flow current: 16A (max)

Input plug: VDE

Output voltage: 220-240V AC, 50/60Hz

Output power: 3500W (max)

Output current:

16A (max) purely resistive load

Output socket:

VDE, 220-240V 16A, 2 poles,

3 wires, grounding type

Self-resettable function

On/off switch at the side

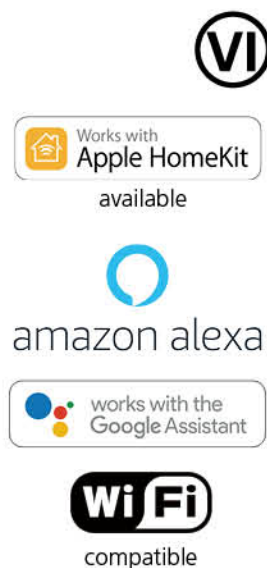
LED indication:

Output LED Green

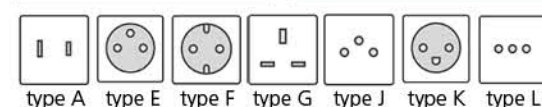
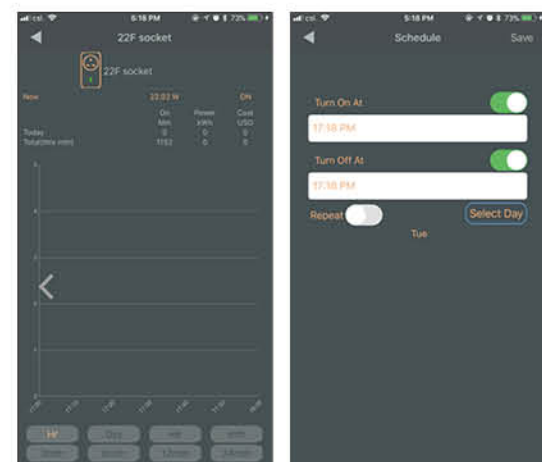
Dimension: 93 x 53 x 51mm

Packing: Individual color giftbox

- 1) Specification is varied from different countries' version.
- 2) HomeKit option is available.



New



# LED-EMH05DE

Wireless Smart Bulb

Converter w/ Wi-Fi Technology

ErP 2nd stage compliance

CEC efficiency: VI

MEPS: VI

Input voltage:

220-240V AC, 50/60Hz

Light Bulb Type:

Light bulb compatibility

LED lamp Energy saving lamp

Incandescent lamp

(dimmable or non-dimmable)

Socket: E27

Bulb's Max Power:

25W (max)

LED indication:

Power LED Green

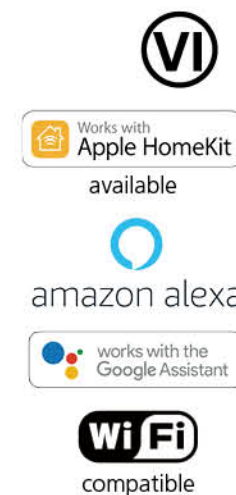
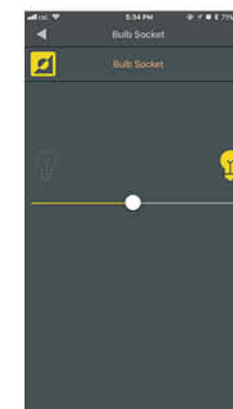
Dimension:

Φ50\*79.8mm

Packing:

Individual color giftbox

New



# LED-MUSA27WE8

Smart LED Bulb Wireless controlled via smart phone app

Over 16 million colors Light schedule setting Mood controller, different lighting mood can be created such as disco mode & sleeping mode

ErP 2nd stage compliance

CEC efficiency: VI

MEPS: VI

Wattage (W): 7W

Voltage (V): 220-240V AC

CRI: Ra\_80

Lifetime (hrs): 30,000

Dimension (mm): 60 x 124

Beam Angle: 300°

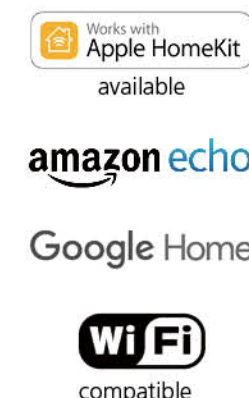
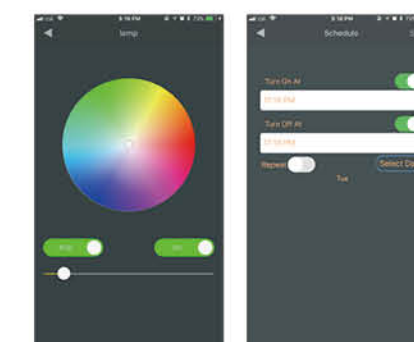
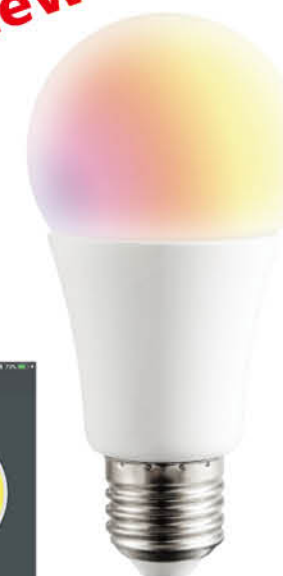
Base: E27

2700K – 6500K:

lumens 600, Watt 48

RGBW: lumens 540, Watt 44

New





# Introducing the innovative WiFi integrated RF (Radio Frequency) Technology



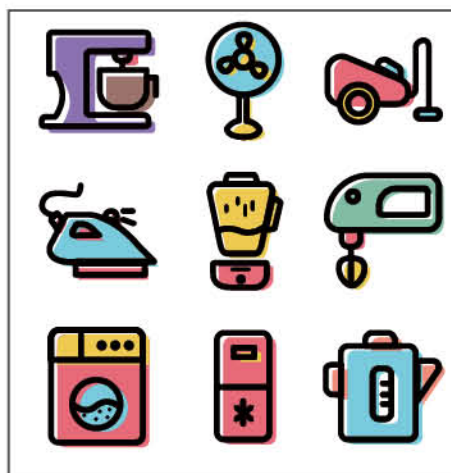
## How It works?



Through Minwa HA app  
To control the WiFi Hub



**The Hub**  
Combined a WiFi Plug & RF technology



**MW RF Series**  
Now you can control our RF series through the hub



## MW WFAS01HUBV

Wireless Remote Control Hub

w/ built-in Wi-Fi integrated RF Technology

ErP 2nd stage compliance

CEC efficiency: VI

MEPS: VI

Input voltage: 220-240V AC, 50Hz

Input power: 3680W (max)

Input flow current: 16A (max)

Input plug: VDE

Output voltage: 220-240V AC, 50Hz

Output power: 3680 (max)

Output current:

16 A (max) purely resistive load

Output socket:

VDE, 220-240V 16A, 2poles,

3 wires, grounding type

On/off switch at the side

LED indication:

Output LED Orange

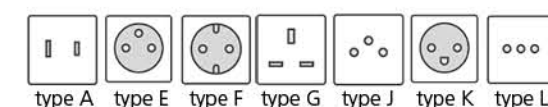
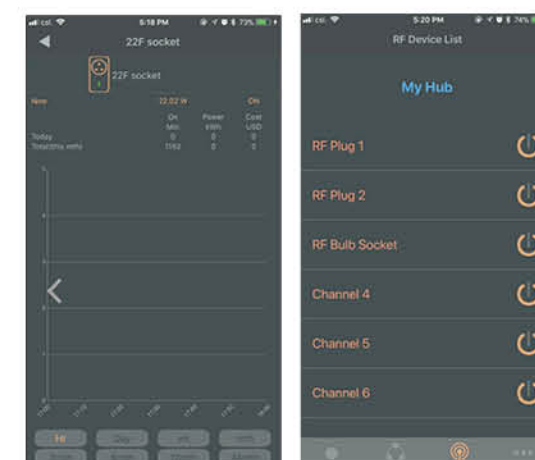
Dimension: 100 x 53 x 51mm

Packing: Individual color giftbox

1) Specification is varied from

different counties' version

2) HomeKit option is available



**New**



Control MW RF series



LED-EMH06DE



MW RCAC01



LED-MUS427WE



Works with  
Apple HomeKit  
available





# MW BTAS01

Wireless Remote Control Plug w/ Bluetooth MESH Technology

ErP 2nd stage compliance

CEC efficiency<sup>VI</sup>

MEPS: VI

Input voltage: 220-240V AC, 50/60Hz

Input power: 3500W (max)

Input flow current: 16A (max)

Input plug: VDE

Output voltage: 220-240V AC, 50/60Hz

Output power: 3500W (max)

Output current: 16A (max) purely resistive load

Output socket:

VDE, 220-240V 16A, 2 poles, 3 wires, grounding type

Self-resettable function

On/off switch at the side

LED indication:

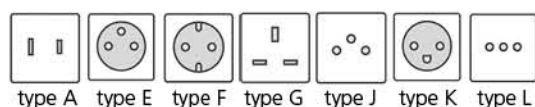
Output LED Blue

Dimension: 93 x 53 x 51mm

Packing: Individual color giftbox

1) Specification is varied from different countries' version.

2) HomeKit option is available.



# MW RCAC01

Wireless Remote Control Plug w/ 433 MHz

ErP 2nd stage compliance

CEC efficiency<sup>VI</sup>

MEPS: VI

Input voltage: 220-240V AC, 50/60Hz

Input power: 3500W (max)

Input flow current: 16A (max)

Input plug: VDE

Output voltage: 220-240V AC, 50/60Hz

Output power: 3500W (max)

Output current: 16A (max) purely resistive load

Output socket:

VDE, 220-240V 16A, 2 poles, 3 wires, grounding type

Self-resettable function

On/off switch at the side

LED indication:

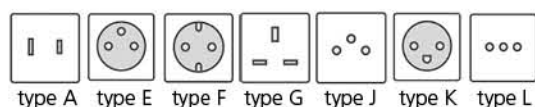
Output LED Red

Packed with: MW RC01 (remote control)

Dimension: 93 x 53 x 51mm

Packing: Individual color giftbox

\*Specification is varied from different countries' version.



Note page:



## Minwa has Successfully Conformed to WEEE and RoHS Directives



### About WEEE and RoHS Directives

The Directive of WEEE and RoHS regarding waste management and hazardous materials of electrical products have been currently launched by the EU (European Union). The two directives play a vital role in the manufacturing, design, and recycling of electrical products. They have been adapted into national laws and effective since 1st of July 2006.



**WEEE (2002/96/EC)**, the directive of waste electrical and electronic equipment, is aimed at preventing electrical and electronic waste; and in addition, to encourage reuse, recycling and other recovery measures to reduce the disposal of waste. It specifically requires the equipment that fall under the directive be marked clearly with a symbol of a crossed out wheeled bin; and an additional solid bar/ date code according to EN 50419 to contribute information to assist in the recycling of products.



**RoHS (2002/95/EC)**, the directive of restriction of the use of certain hazardous substances in electrical and electronic equipment, is aimed to substantially reduce or eliminate the use of Lead, Mercury, Hexavalent Chromium, Polybrominated Biphenyls, Polybrominated Diphenyl and Cadmium in the production of electrical and electronic equipment so as to reduce WEEE. This Directive has been effective from 1st of July 2006.

Every product we make is completely compliant with the requirements of both RoHS and WEEE directives. There is no more non-RoHS product is being produced. Also all of them are marked with the crossed out wheeled bin on the back of the unit.

**REACH**, We also work closely to international laboratories to get the update information about REACH regulation and the banned materials to ensure the components and raw materials we use are complied to REACH requirements. Minwa Electronics is fully committed to support both the RoHS & WEEE directives. As a forward- looking company, we keep ourselves in the front so as to stay abreast of all the latest market conditions and demands.

## A Strong Commitment from Minwa

### ISO 14001

We moved a big step to strengthen our commitment not only to our staff, our products but also to the environment. In 2013, we obtain the certificate of ISO14001 which is a organization planning, implementation, inspection, review environmental management operational systems normative standards. The system consists of five parts, includes control the consumption of hazard materials, the establishment of procedures and established a planned and ongoing assessment Improved circulation within the organization in order to ensure the continuous improvement of environmental management systems and improve.



We understand we all live in one world. The more we can do on control and improvement of our production and factory running, the more benefit to environment. We made certain efforts to achieve the goal. Other than products itself, we also pay attention to air, land or water, anything relates to the conservation.

### SA 8000

Minwa pays great attention to provide our workers and staff with a better working and living environment. As we believe that good relationship build trust, cooperation and loyalty among us, which in turn enhance the efficiency and productivity.

In Jul of 2006, our factory obtained the SA8000 accreditation from Social Accountability International which a set of standards for decent working conditions. This cetificate proves the working conditions and living environment we provided to our workers and staff are met the international standards.

Our core values are in terms of quality, safety, staff welfare, and social responsibility. We have remained competitive in terms of price, and our production machinery and equipment are state-of-the-art. We take pride in what we have achieved, and we shall keep improving ourselves to meet all –round success.

### ErP

EuP (2005/32/EC), the directive of energy efficiency and saving launched by the EU (European Union). It has been effective in April 2009, and it will become mandatory efficiency requirements for external power supplies in April 2010.

We have a newly developed high-energy efficiency SMPS series, aims to reduce energy loss during loading or no load of adaptors, the series consists single voltage and multiple voltage outputs. It complies with 2nd enforcement stage of ErP, (for EU countries), which is much more rigorous then the CEC and MEPS ones. This explains our new series also complies with CEC (US market) and MEPS (Australian market).

We provide various products with reliability, affordability and environmental friendly, contact us today at

[sales@minwa.com.hk](mailto:sales@minwa.com.hk) for details.

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