

PRODUCT CATALOGUE

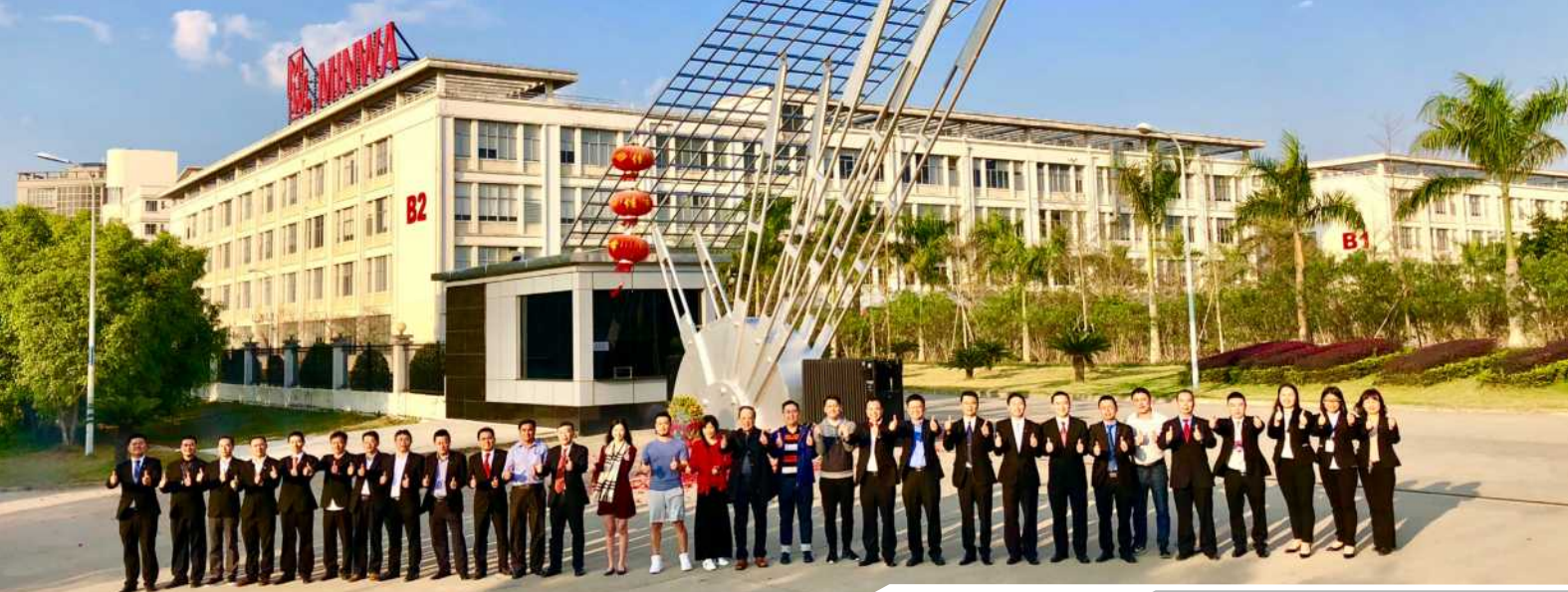
ISO14001 · ISO9001 · SA8000 · WEEE · RoHS · REACH · FSC

2022



Minwa Electronics Co., Ltd.

Minwa Green Energy Electronics Co., Ltd.



The Industrial Park in Hui Zhou

MO IN FORWARD

In 200 , Minwa constructed a new industrial park in uizhou, uangdong with a view to further revolutionizing our development and establishing a better work- ow. The certification of SA 000, ISO9001 200 , ISO1 025 and the execution of PMS, 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 , new product development, product tests, in-house tooling, in action molding, metal stamping, cable fabrication, and coil winding departments,accommodates up to 100 production lines enabling a high exibility 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/O M customers with proficiency.



ATTER MAN FACT RIN , COPPER WIRE MAN FACT RIN PRINTIN COMPAN

Pursuance of excellence in our products, we started to produce our own rechargeable i-Cd i-M batteries in 200 . 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 LI HTIN

In 2010, we moved a big step to manufacture E lighting. The passionate we are on environmental conservation, drives us to develop high energy-efficient and eco-friendly E bulbs. Our development team makes effort on designing the new form of E 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.



ETTER EN IRONMENT FOR WOR ERS

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

SOCIAL RESPONSI ILIT

Minwa knows education is the best way to improve standard of living. Being a responsible social business group, we provide on-the-ob training to our workers and subsidies to the establishment of schools for the uizhou. The implementation of PMS, 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.

IMPRO IN ALIT OF LIFE

Our mission to achieve environment health and ustice is the construction of the new factory plant to a large greenbelt. This pro ect 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 10,000 workers. We also launched the back home safe program to ensure those kids get back from school safely.

The new plant certificated to SA 8000 ISO 1 001, 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 1995. 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 14025 accreditation from TÜV Rheinland. Therefore, the laboratory is entitled to conduct in-house safety tests and calibration tasks in conformity with both ENEC 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 CE, FCC, cSAUS, CE, FCC, S, ET, C-tick, PSE, CB scheme, e-mark, Argentina S mark, E 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 is 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 20 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.



ISO9001:2015 Certificate



TÜV ISO 17025 Certificate



ISO 14001 Certificate



SA8000 Certificate



Words from CE

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

Since the establishment of Minwa Electronics Co., Ltd in 1980, 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 1980s - 1990s, we established the foundation of the company, moved the production facilities from Hong Kong to Shanghai in 1990. This was our first factory in China. We opened our second manufacturing plant in 1992 in Shilong, Guangdong. Few years later, in 1995, there were 3 more plants opened in Tianxin, Shahe and Sun iang. A significant movement of Minwa took place in 1999, we moved the factory to Bu i, 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 2009, we moved to the new plant in Huizhou in order to have enough space for the business and production expansion. We started the E-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 2014. 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. 2014 is not only the 30th 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.



USB Power AC

Notes:

AN C ntroduction	P. 6
PD Type-C Charger	P. 6-9
uick Charger 3.0 .0	P. 9-11
USB Charging Station	P. 8-12

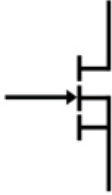
GAN IC introduction

STRONG POWER, FAST CHARGING, in a nano size. The next-level charging experience with advanced GaN technology. Gallium nitride (GaN) is a high-performance alternative to the traditional silicon used in charging devices. GaN transistors produce less heat, allowing components to be closer together, which means you get a much smaller charger with all the power of a big one.

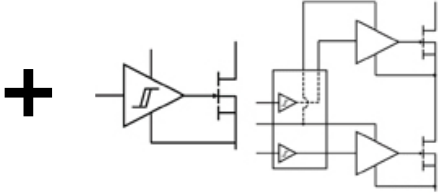
Fastest, most efficient GaN Power FETs

First & Fastest Integrated GaN Gate Drivers

World's First GaNFast™ Power ICs



> 20x faster than silicon
> 5x faster than cascoded GaN
Proprietary design



> 3x faster than any other gate driver
Proprietary design
120+ patents granted/applied

New



MW PD30AGANU

Super Tiny 30W Power Delivery & Quick charge Type-C Charger

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
Output current:
Type-C Outlet
PD: 20V/1.5A; 15V/2A; 9V/3A; 5V/3A
QC4+(PPS): 5-10V/3A
Dimension: 38.1 x 36.4 x 40.2 mm
Packing: Individual Color Giftbox



Made for
iPhone | iPad | iPod

VI
GaN

U version US version
UK version SAA version available

iBz-PD29AC

Power Delivery - 29W Type-C USB chargers for iPhone

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V
Output current:
PD: 14.5V/2A; 9V/2.22A; 5V/3A
QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A
LED indication: Power LED Blue
Dimension: 90.6 x 27.7 x 42mm
Packing: Individual clamshell blister



Made for
iPhone | iPad | iPod

VI

Qualcomm Quick Charge compatible

U version US version
UK version SAA version available

MW PD20ASU

Super Tiny 20W Power Delivery Type-C Charger

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
Output current:
Type-C Outlet
PD: 12V/1.66A;9V/2.22A; 5V/ 3A
QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A
Dimension: 29.6 x 37 x 34 mm
Packing: Individual Color Giftbox

New



Made for
iPhone | iPad | iPod

VI

Qualcomm Quick Charge compatible

U version US version
UK version SAA version available

MW PD30AU

30W Power Delivery & Quick charge Type-C Charger

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
Output current:
Channel 1 (Type-C):
PD: 9V/2.22; 5V/3A
QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A
Channel 2 (Type-A):
5V/2.4A
Dimension: 55 x 35.5 x 57mm
Packing: Individual Color Giftbox

New



Made for
iPhone | iPad | iPod

VI

Qualcomm Quick Charge compatible

U version US version
UK version SAA version available

MW PD40A1

Power Delivery - 40W AC/ DC Type-C USB Charger
with 4 USB Type-A Outlet

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V

Channel 1 (Type-C):

PD: 14.5V/1.25A; 9V/2.22A; 5V/3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Channel 2-5 (Type-A):

5V/4.4A Shared by 4

LED indication: Power LED Blue

Dimension: 60 x 30 x 72mm

Packing: Individual Color Giftbox



Made for
iPhone | iPad | iPod



UK version U version US version
SAA version available



MW PD40A2

Power Delivery - 40W AC/ DC
Type-C USB Charger
with 2 USB Type-A Outlet

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V

Channel 1 (Type-C):

PD: 14.5V/2A; 9V/2.22A; 5V/3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Channel 2-3 (Type-A):

5V/2A Shared by 2

LED indication: Power LED Blue

Dimension: 60 x 30 x 68mm

Packing: Individual Color Giftbox



Made for
iPhone | iPad | iPod



UK version U version US version
SAA version available



MW PD45ASU

Super Tiny 45W Power Delivery & Quick charge
Type-C Charger

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input Voltage: 100-240V AC

Output Current:

(When only 1 channel is connected):

PD: 5V, 9V, 12V/3A; 20V/2.25A

Normal Charge: 5V/2.4A

(When more than 1 channel is connected):

PD: 5, 9V/3A; 12V/2.5A; 20V/1.5A

QC: 5-6.5V/3A; 6.5-9V/2A; 9-1V/1.5A

Normal Charge: 5V/2.4A

Dimension: 52 x 48 x 48.2 mm

Packing: Individual Color Giftbox

New



Made for
iPhone | iPad | iPod



UK version U version US version
SAA version available



MW PD60A

Power Delivery - 60W AC/ DC Type-C USB Charger w/ 5 USB ports

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V DC

Output current:

Type-C Outlet 1

PD: 14.5V/2A; 9V/2.22A; 5V/3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Type-A Outlet (2-6):

5V/6.0A (Shared by 5)

LED indication: Power LED Blue

Dimension: 100.3 x 55 x 81.3 mm

Packing: Individual Color Giftbox



UK version U version US version
SAA version available



MW PD60C

Power Delivery 60W Speedy
Type-C Charger

ErP 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V DC

Output current:

PD: 5V, 9V, 15V, 20V@3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

LED indication: Power LED Blue

Dimension: 100.3 x 55 x 81.3 mm

Packing: Individual Color Giftbox



UK version U version US version
SAA version available



MW QA20C

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

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V AC

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 Color Giftbox



UK version Japan version US version
SAA version available



MW QA20W

Quick Charge - 20W AC/ DC USB Charger

Erp 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
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 Color Giftbox



Qualcomm
Quick Charge
compatible

Japan version US version
UK version SAA version available



MW QA20A

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

Erp 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
Quick Charge:
(When only 1 channel is connected):
QC: 3.6V-6.5V/3.0A;
6.5V-9V/2.0A;
9V-12V/1.5A
(When more than 1 channel is connected):
Normal Charge: 5V/4A (shared by 2)
LED indication: Power LED Green
Dimension: 86 x 27.5 x 51mm
Packing: Individual Color Giftbox



Qualcomm
Quick Charge
compatible

Japan version US version
UK version SAA version available



MW QA36W

Quick Charge 36W AC/ DC USB Charger

Erp 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
Quick Charge
(When only 1 channel is connected):
3.6V-6.5V/3A; 6.5V-9V/2A; 9V-12V/1.5A
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



Qualcomm
Quick Charge
compatible

Japan version US version
UK version SAA version available



MW QA40W

Quick Charge - 40W AC/ DC USB Desktop Charger

Erp 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
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 72mm
Packing: Individual Color Giftbox



Qualcomm
Quick Charge
compatible

U version US version
UK version SAA version available



MW QA60W

Quick Charge - 60W AC/ DC USB Desktop Station

Erp 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
Channel 1 (Quick Charge):
3.6V-6.5V/3.0A;
6.5V-9V/2.0A;
9V-12V/1.5A
Channel 2 (Normal Charge):
5V/8A (Shared by 5)
LED indication: Power LED Green
Dimension: 100.3 x 55 x 81.3mm
Packing: Individual Color Giftbox



Qualcomm
Quick Charge
compatible

U version US version
UK version SAA version available



MW U05AU

AC/ DC USB Charger

Erp 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC
Normal Charge: 5V/1A
Dimension: 40x 26.5 x 45mm
Packing: Individual Color Giftbox



MW U05AUK



UK plug version



MW CA15W

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

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V AC

Output current: 5V/3.4A (Shared by 3)

Output:

1 x typeC

2 x typeA

LED indication: Power LED Blue

Dimension: 54 x 52 x 27mm

Packing: Individual Color Giftbox



MW CA15W-1



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

MW AA15W-1



3.4A w/2USB A

Japan version US version
UK version SAA version available



MW CA40W

Type-C Outlet - 40W AC/ DC USB Charger

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V AC

Output current: 5V/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



U version US version
UK version SAA version available



MW USB12AU

12W AC/ DC USB Type-A Charger

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V AC

Output voltage: 5V DC

Output current: 2.4A

Dimension: 35.7 x 34 x 69.3 mm

Packing: Individual Color Giftbox

New



Japan version US version
UK version SAA version available



MW U12AU

12W AC/ DC USB Type-A Charger

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V AC

Output voltage: 5V DC

Output current: 2.4A Shared by 2

Dimension: 45 x 30 x 82.3 mm

Packing: Individual Color Giftbox



New



Japan version US version
UK version SAA version available



MW USB24AU

24W AC/ DC USB Type-A Charger

Erp 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

Input voltage: 100-240V AC

Output voltage: 5V DC

Output current: 4.8A Shared by 2

Dimension: 35.3 x 50 x 89.3 mm

Packing: Individual Color Giftbox



New



Japan version US version
UK version SAA version available



Below USB series is our newly launched USB home chargers. This is a complete solution for automobile devices. Charging range is started from . A to 1.0A; USB outlets from 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 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

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



Japan version



US version



UK version



SAA version



MW USB5U	TD-009	MW USB5U-1
2.1A + 2.1A for Apple	2.1A + 2.1A for Apple & Samsung	2.4A + 2.4A w/ Auto detection

MW USB2U-1

Compact 2400mA USB Switching Adaptor

ErP 3rd stage compliance

CEC efficiency: Level ①

MEPS: VI

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

Output Voltage: 5.0V DC

USB Output Current: 2.4 Shared

LED indication: Blue power LED

Dimension: 48 x 48 x 35.3mm

Packing: Individual clamshell blister



Japan version



US version



UK version



SAA version

TD-A24	TD-A21	TD-A21N	TD-010	MW USB2U-1	MW USB2U-4
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

USB Power C

Notes:

PD Type-C DC/DC Power — P. 16-17

uick Charge DC/DC Power — P. 18

DC/DC USB Power — P. 19

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

MW PD20D

20W Power Delivery & DC/DC Type-C USB Charger

Input voltage: 12-24V DC

Output current:

Type-C Outlet

PD: 9V/ 2.22A; 5V/ 3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Dimension: 30 x 28 x 67 mm

Packing: Individual clamshell blister



Made for
iPhone | iPad | iPod



Qualcomm
Quick Charge
compatible



New

iBz-PD29DC

Power Delivery 29W Type-C USB car chargers for iPhone

Input voltage: 12-24V DC

Output current:

PD: 14.5V/2A; 9V/2.22A; 5V/3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Power LED Blue

Dimension: 69 x 38.2 x 28.6 mm

Packing: Individual clamshell blister



Made for
iPhone | iPad | iPod



Qualcomm
Quick Charge
compatible

MW PD30D

Power Delivery 30W DC/ DC Type-C USB Charger

Input voltage: 12-24V

Channel 1 (Type-C):

PD: 9V/ 2.22A; 5V/ 3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Channel 2 (Type-A):

5V/ 2.4A

Dimension: 32 x 28 x 69.5 mm

Packing: Individual Color Giftbox



New



Made for
iPhone | iPad | iPod



Qualcomm
Quick Charge
compatible

MW PD60D

Power Delivery 60W

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

Input voltage: 12-24V DC

Output current: Type-C Outlet 1

PD: 5V, 9V, 12V/3A; 20V/1.8A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Type-A: 5V/4.8 (Shared by 2)

Dimension: 37 x 37 x 58 mm

Packing: Individual color giftbox

New



Made for
iPhone | iPad | iPod



Qualcomm
Quick Charge
compatible

MW PD40D1

Power Delivery 40W DC/ DC Type-C USB Charger

Input voltage: 12-24V

Channel 1 (Type-C):

PD: 14.5V/1.25A; 9V/2.22A; 5V/3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Channel 2 (Type-A): 4.4A Shared by 2

LED indication: Power LED Blue

Dimension: 75 x 42 x 28.6 mm

Packing: Individual clamshell blister



Made for
iPhone | iPad | iPod



Qualcomm
Quick Charge
compatible

MW PD40D2

Power Delivery 40W DC/ DC Type-C USB Charger

Input voltage: 12-24V

Channel 1 (Type-C):

PD: 14.5V/2A; 9V/2.22A; 5V/3A

QC: 3.6-6.5V/3A; 6.5-9V/2A; 9-12V/1.5A

Channel 2 (Type-A): 2A Shared by 2

LED indication: Power LED Blue

Dimension: 75 x 42 x 28.6 mm

Packing: Individual clamshell blister



Made for
iPhone | iPad | iPod



Qualcomm
Quick Charge
compatible

MW QD20W

Quick Charge - 20W DC/ DC USB Charger

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



MW QD30W

Quick Charge - 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



MW USB12D

12W 2.4A DC/DC USB Charger

Input voltage: 12-24V
Output Voltage: 5V DC
Output Current: 2.4A Shared by 2
Dimension: 24 x 24 x 48.5 mm
Packing: Individual Color Giftbox



New



MW USB24D

24W 4.8A DC/DC USB Charger

Input voltage: 12-24V
Channel 1: 5V/ 2.4A
Channel 2: 5V/ 2.4A
Dimension: 30 x 28 x 67 mm
Packing: Individual Color Giftbox



New



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



MFi & Cable

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.

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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 OEM projects with MFi license.

Contact our sales persons or details
or email to sales@inwa.co.uk

Type-C to lightning cables — P. 21-22

Special Type cable — P. 22-2

Type-C Cable — P. 25

Micro USB Cable — P. 26

Tablet Tips DC Tips — P. 28-29

iBz-200PD

1m lightning to
USB Type-C Cable

Input voltage: 20V DC
Output voltage: 20V DC
Cable Length: 1m
Packing: Individual clamshell blister

Model Number	Length
iBz-220PD	2m
iBz-230PD	3m



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iBz-300PD



iBz-B300PD



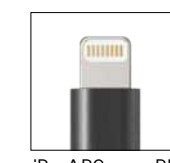
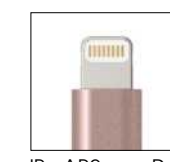
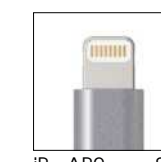
iBz-AB200PDCG

1m lightning to
USB Type-C Braided Cable with
aluminum case

Input voltage: 20V DC
Output voltage: 20V DC
Cable Length: 1m
Packing: Individual clamshell blister



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



Made for
iPhone | iPad | iPod

iBz-L212-1W



connector

New

iBz-300



iBz-B300



CB23-GBMAJ112BW

1m "USB Type-A/ Type-C" to
"USB Type-C/ Micro USB" Cable

Input voltage: 20V DC
Output Voltage: 20V DC
Cable Length: 1m
Packing: Individual Clamshell Blister

New



Made for
iPhone | iPad | iPod



iBz-MC100

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

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

New



Made for
iPhone | iPad | iPod



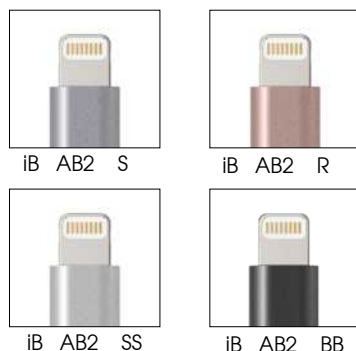
iBz-AB200CG

1m USB Data/Charging Braided
Cable with aluminum case

Input voltage: 5.0V DC
Output voltage: 5.0V DC
Cable Length: 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

New



Made for
iPhone | iPad | iPod



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-M115	1.5m
iBz-M120	2m



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



IBZ-GK2010-1/T

10cm Apple Lightning to USB Type-A Cable w/ Ring Hold

Input voltage: 5V DC
Output Voltage: 5V DC
Cable Length: 10cm
Packing: Individual Clamshell Blister

New



Made for
iPhone | iPad | iPod



CB19-GKJ2010/T

10cm USB Type-C to USB Type-A Cable w/ Ring Hold

Input Voltage: 5.0V DC
Output Voltage: 5.0V DC
Cable Length: 10cm
Packing: Individual clamshell blister

New



Made for
iPhone | iPad | iPod



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-F212-1W

1m USB Type-A to Lightning Flat Cable

Input voltage: 5V DC
Output Voltage: 5V DC
Cable Length: 1m
Packing: Individual Clamshell Blister

New

New Appearance
Smaller in size



Made for
iPhone | iPad | iPod



MFi-100

USB Data/ Charging Cable

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



Made for
iPhone | iPad | iPod



MW CB23-200

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 CB23-220	2m



MW CB23-300



urable

MW CB23-B300



Brai e



MW CB19-200

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.

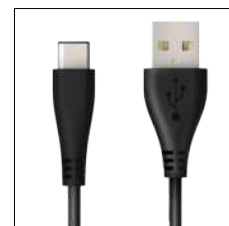


USB TypeC

Model Number	Length
MW CB19-220	2m



MW CB19-300



urable

MW CB19-B300



Brai e



CB19-FJ212W

1m USB Type-A to USB Type-C Cable

Input voltage: 20V DC
Output Voltage: 20V DC
Cable Length: 1m
Packing: Individual Clamshell Blister

New



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 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 CB15-300



MW CB15-B300

urable

Brai e



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 DC18 (C to M)

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 (M to C)



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
3. 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



PM29 (Micro USB)



PM17 (Mini USB)



PM28 (Nokia)



PM21 (Female USB)










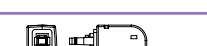


























Tablet Tips

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	

PM DC Tips

Belo the M plugs are for using ith our AC C a ap
tors C C converters USB cables The stan ar versions
have inclu e the M plug set Customers may choose from
belo to make their o n 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

Notebook Power

Notes:

120W AC Power — P. 31	Macbook Power — P. 37
90W AC Power — P. 32-33	Cable Cord — P. 38
70W AC Power — P. 3 -35	Notebook Tips — P. 39- 0
5W Ac Power — P. 36	

MW F120W

All-New 120W Single Voltage Desktop Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 50/60Hz
Output voltage: 19V DC
Output current: 6.3A (max)
LED indication: Power LED Blue
Dimension: 138 x 62 x 36mm
Packing: Individual clamshell blister

New



etachable cable for U version US version
UK version SAA version available



MW M120W

New Style 120W Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 50/60Hz
Output voltage: 15.0V / 16.0V / 19.5V DC
Output current: 6.0A (max)
LED indication: Power LED Blue
Dimension: 138 x 62 x 36mm
Packing: Individual clamshell blister

New



etachable cable for U version US version
UK version SAA version available



MW F90W

All-New 90W Single Voltage Desktop Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 50/60Hz
Output voltage: 19V
Output current: 4.74A (max)
LED indication: Power LED Blue
Dimension: 123.2 x 55 x 33.9mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW F90WS

Ultra Slim All-New 90W single Voltage Desktop Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 50/60Hz
Output voltage: 19V
Output current: 4.74A (max)
LED indication: Power LED Blue
Dimension: 130.5 x 65.6 x 25.6mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW M90W

New Style 90W Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 60/50Hz
Output voltage: 15/16/19.5V DC
Output current: 4.62A
LED indication: Blue Power LED
Dimension: 123.2 x 55 x 33.9mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW M90WS

Ultra Slim New Style 90W Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 60/50Hz
Output voltage: 15/16/19.5V DC
Output current: 4.62A
LED indication: Blue Power LED
Dimension: 130.5 x 65.6 x 25.6mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW F70W

All-New 70W Single Voltage Desktop Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 50/60Hz
Output voltage: 19V
Output current: 3.68A (max)
LED indication: Power LED Blue
Dimension: 113.4 x 48 x 32mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW F70WS

Ultra Slim All-New 70W single Voltage Desktop Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 50/60Hz
Output voltage: 19V
Output current: 3.68A (max)
LED indication: Power LED Blue
Dimension: 115.5 x 56.3 x 22.5mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW M70W

New Style 70W Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 60/50Hz
Output voltage: 15/16/19.5V DC
Output current: 3.59A
LED indication: Blue Power LED
Dimension: 113.4 x 48 x 32mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW M70WS

Ultra Slim New Style 70W Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI



Input voltage: 100-240V AC, 60/50Hz
Output voltage: 15/16/19.5V DC
Output current: 3.59A
LED indication: Blue Power LED
Dimension: 115.5 x 56.3 x 22.5mm
Packing: Individual clamshell blister

New



detachable cable for U version US version
UK version SAA version available



MW F45W

All-New 45W Single Voltage Desktop Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC, 50/60Hz
Output voltage: 19V
Output current: 2.37A (max)
LED indication: Power LED Blue
Dimension: 89.2 x 51 x 33.5mm
Packing: Individual clamshell blister



New



detachable cable for U version US version
UK version SAA version available



MW M45W

All-New 45W Desktop Notebook Power

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC, 50/60Hz
Output voltage:
9.5/12.0/14.0/
16.0/18.5/19.0/20V
Output current:
9.5/12.0/14.0/16.0@2.8A;
18.5/19.0@2.36A;
20V@2.25A(max)
LED indication: Power LED Blue
Dimension: 89.2 x 51 x 33.5mm
Packing: Individual clamshell blister



New



detachable cable for U version US version
UK version SAA version available



MW MAC45AU

45W Speedy USB Type-C Charger for Macbook

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V AC, 60/50Hz
Output voltage: 5.0/ 9.0/ 12.0/ 15.0/ 20.0V DC
Output current:
5.0/ 9.0/ 12.0/ 15.0V@3.0A max; 20.0V@2.25A
QC4+(PPS): 3.3-5.9V/ 3A; 3.3-11V/ 3A
Dimension: 66 x 93.3 x 35.3mm
Packing: Individual clamshell blister



New



Japan version US version
UK version SAA version available



Qualcomm
Quick Charge
compatible



MW MAC61AU

60W Speedy USB Type-C Charger for Macbook

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V DC
Output voltage: 5.0/ 9.0/ 12.0/15.0/ 20.3V DC
Output current: 3.0A (MAX)
QC4+(PPS): 3.3-5.9V/ 3A; 3.3-11V/ 3A
Dimension: 66 x 93.3 x 35.3mm
Packing: Individual clamshell blister



New



Japan version US version
UK version SAA version available



Qualcomm
Quick Charge
compatible



MW PD60C

Power Delivery 60W Speedy Type-C Charger

ErP 3rd stage compliance
CEC efficiency: Level ①
MEPS: VI

Input voltage: 100-240V DC
Output current:
PD: 5V, 9V, 15V, 20V@3A
Dimension: 100.3 x 55 x 81.3mm
Packing: Individual color giftbox
Option: Product stand
Pls go to p.24-26 for type-C cable options.



U version US version
UK version SAA version available



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

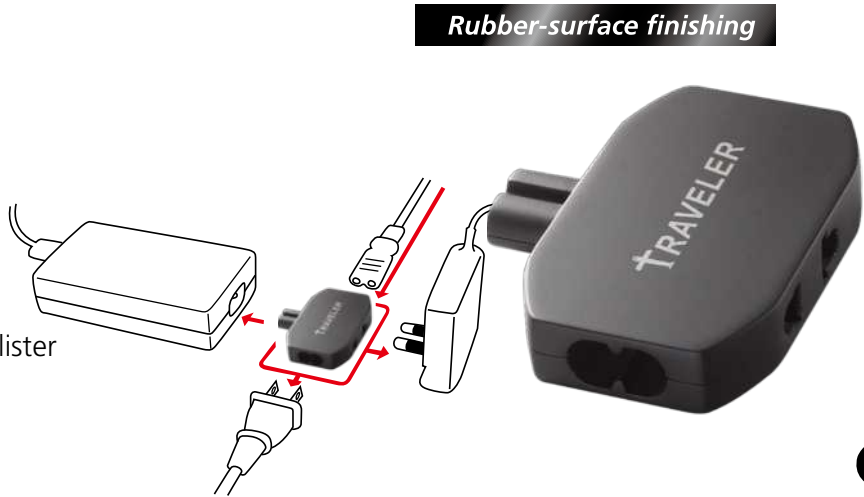
Connecting cable: SE socket to SE plug (1.5m)
Packing: Individual clamshell blister



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 x1.4/ 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				
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		✓		✓
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				

Automobile Power

Notes:

- ump Starter _____ P. 2
- Household Automotive Battery Chargers _____ P. 3-53
- Marine Battery Chargers _____ P.5 -55
- 12/2 V Battery Tester _____ P.56
- Car Charger Accessories _____ P.57
- ead Acid Battery Charger _____ P.58-59
- DC/AC nverters _____ P.60

This is Minwa latest design ultra-safe, ultra-compact, rugged, and portable Lithium-ion Jump Starter. Ideal for the widest range of engines, including 10.0L+ gas and 10.0L+ diesel engines. It also has a spark proof reverse polarity protection and had a torch function. Your perfect road-trip companion.

MW JS2000

2000A Portable Jump Starter

Input: DC 5V/2A ; 12V/1.5A
Battery voltage : 14.8V
Capacity : 3750mAh
Internal resistance : $\leq 9\text{m}\Omega$
Recharging time : 5V/2A Est. 10 hours; 12V/1.5A Est. 6 hours
Over voltage protection (Battery) : 17V (Single battery 4.25V)
Over current protection : 2.4A
Output current: 2000A Peak (less than 3second)
Output voltage: 12V-16.8V
Number of cycles: 5 shots max. within 15 minutes
Jump start time:
20-30 seconds per shot (depends on the battery capacity)
Manual control:
The car battery voltage below 2V, manual override feature
Voltmeter to show battery voltage
Torch function:
300 lumens LED (Ultra bright white)
Insulation:
IP 20 (Dust and Water proof)

New



Protection:
✓ Over voltage protection
✓ Over current protection
✓ Short circuit protection
✓ Reverse battery protection

LED indication: For details please check with our sales
Dimension: 230 x 125 x 213mm
Packing: Individual color giftbox



MW JS4000

4000A Portable Jump Starter

Input: DC 5V/2A ; 12V/1.5A
Battery voltage : 14.8V
Capacity : 6000mAh
Internal resistance : $\leq 9\text{m}\Omega$
Recharging time : 5V/2A Est. 14 hours; 12V/1.5A Est. 8 hours
Over voltage protection (Battery) : 17V (Single battery 4.25V)
Over current protection : 2.4A
Output current: 4000A Peak (less than 3second)
Output voltage: 12V-16.8V
Number of cycles: 5 shots max. within 15 minutes
Jump start time:
20-30 seconds per shot (depends on the battery capacity)
Manual control:
The car battery voltage below 2V, manual override feature
Voltmeter to show battery voltage
Torch function:
300 lumens LED (Ultra bright white)
Insulation:
IP 20 (Dust and Water proof)

New



Protection:
✓ Over voltage protection
✓ Over current protection
✓ Short circuit protection
✓ Reverse battery protection

LED indication: For details please check with our sales
Dimension: 263.5 x 182.6 x 208mm
Packing: Individual color giftbox



This is our newly developed Household Automotive Battery Charger series. MW LF-CC260A is a 12V/ 16V/ 24V 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 choosing 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-CC260A

26A 12V/ 16V/ 24V 10 steps Intelligent Battery Charger for Household Automotive
13.6V Power Supply

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

Input: 220-240V AC, 50Hz, 2.5A

Output current: 26A (max)

Charging voltage:

Lead acid (normal): 14.4/28.8VDC

Cold/AGM: 14.7/29.4VDC

16V AGM Racing: 19.6VDC

16V LITHIUM Racing:19VDC

LiFePO4; 12.8V/4 cells 30 Ah-200Ah
and 16V/4 cells 25Ah-250Ah

Charging current:

12V lead acid: 26A

24V lead acid: 13A

LiFePO4: 26A

13.6V Power Supply: 5.0A

Insulation: IP 20 (Dust and Water proof)

Packed with:

MW CC-BC1: Battery Clamp Connector

Dimension: 321 x 144.5 x 77.5mm

Packing: Individual color giftbox



Protection:

✓ Short circuit protection

✓ Overload protection

✓ Wrong polarity protection

✓ Reverse battery protection

✓ Safety timer protection

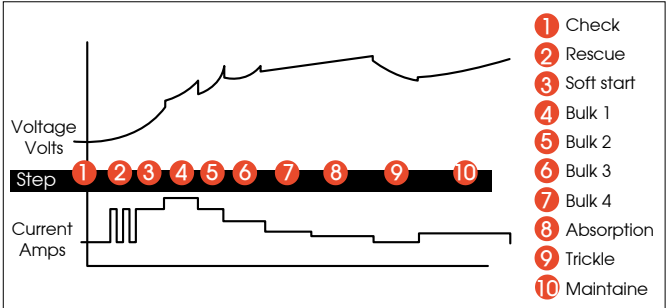
MW LF-CC260ALCD (LCD version)



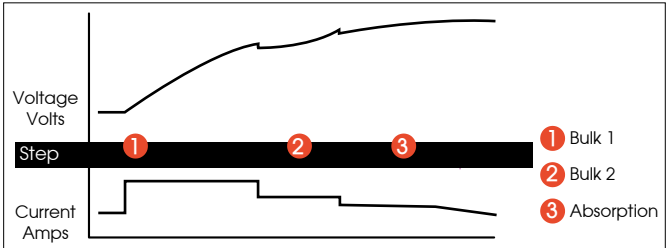
LED indication: for details please check with our sales

Item	Indication	LED color
Power On Reset	All LED flash 2 times for self-check.	Flashing: ON=0.5S,OFF=0.5S
Stand-by	ON: no battery at Standby. OFF: Battery Charging.	Color: Pure Green
Error (dual color)	Flashing: 1.Timer>10hours at step2 and step3 Recovery+Soft start charge. (red on) If 12V recover (+) mode <12V after 4hours (red on). 2. Timer>15hours at Lithium Bulk charge. (Green on) 3. Total Timer>50hours at Pb battery modes. (yellow flash) 4. Battery voltage>28V, Vbat=1.0-2.0V (yellow on) 5. Reversed Polarity. (red flash)	Color: Red and Yellow Flashing: ON=0.5S,OFF=0.5S
25%	Flashing: Vbat<12.8/25.6V Steady: Vbat>12.8/25.6V after 3sec. OFF: after full charged	Color: Red Flashing: ON=0.5S,OFF=0.5S
50%	Flashing: 12.8/25.6V<Vbat<13.6/27.2V Steady: Vbat>13.6/27.2V after 3sec. OFF: after full charged	Color: Orange Flashing: ON=0.5S,OFF=0.5S
75%	Flashing: 13.6/27.2V<Vbat<13.9/27.8V Steady: Vbat>13.9/27.8V after 3sec. OFF: after full charged	Color: Yellow Flashing: ON=0.5S,OFF=0.5S
100%	Flashing: 13.9/27.8V<Vbat<full charged Steady: Full charged after 3sec.	Color: Pure Green Flashing: ON=0.5S,OFF=0.5S
12V Recover(+)	Steady: Mode selected(3sec.) Flashing: Start charging after Step1 (Diagnosis) started. Steady: after go to 12V Small Cold charge, timer over 4hours, ERROR and full charged.	Color: Pure Green Flashing: ON=0.5S,OFF=0.5S

Principle programme representation 12V/ 16V/ 24V Pb



Principle programme representation LiFePO4



MW LF-CC150A

15A 12V/24V 10 steps Intelligent Battery Charger for Household Automotive

13.6V Power Supply

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

Input: 220-240V AC, 50Hz, 2.0A

Output current: 15A (max)

Charging voltage:

Lead acid (normal): 14.5/29.0V DC

Cold/AGM: 14.7/29.4V

LiFePO4; 12.8V/4 cells

Charging current:

12V lead acid: 15 A

24V lead acid: 7.5A

LiFePO4: 15A

13.6V Power Supply: 5.0A

Insulation:

IP 65 (Dust and Water proof)

Protection:

✓ Short circuit protection

✓ Overload protection

✓ Wrong polarity protection

✓ Reverse battery protection

✓ Safety timer protection

Packed with:

MW CC-BC1: Battery Clamp Connector

Dimension: 279 x 119 x 68mm

Packing: Individual color giftbox



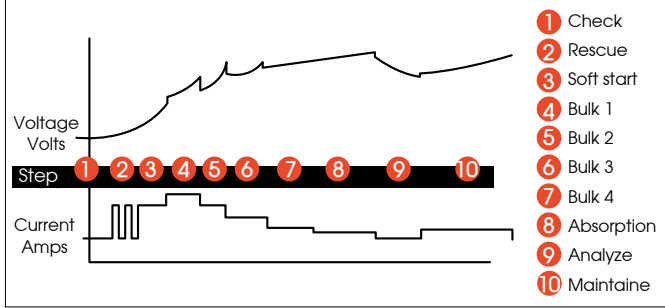
MW LF-CC150ALCD (LCD version)



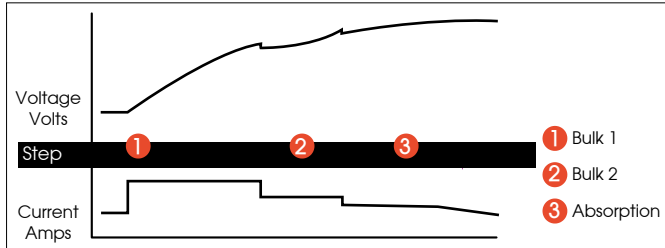
LED indication: for details please check with our sales

Item	Indication	LED color
Power On Reset	All LED flash 2 times for self-check.	Flashing: ON=0.5S,OFF=0.5S
Stand-by	ON: no battery at Standby. OFF: Battery Charging.	Color: Pure Green
Error (dual color)	Flashing: 1. Timer>10hours at step2 and step3 Recovery+Soft start charge. (red on) If 12V recover (+) mode <12V after 4hours (red on). 2. Timer>15hours at Lithium Bulk charge. (Green on) 3. Total Timer>50hours at Pb battery modes. (yellow flash) 4. Battery voltage>28V, Vbat=1.0-2.0V (yellow on) 5. Reversed Polarity. (red flash)	Color: Red and Yellow Flashing: ON=0.5S,OFF=0.5S
25%	Flashing: Vbat<12.8/25.6V Steady: Vbat>12.8/25.6V after 3sec. OFF: after full charged	Color: Red Flashing: ON=0.5S,OFF=0.5S
50%	Flashing: 12.8/25.6V<Vbat<13.6/27.2V Steady: Vbat>13.6/27.2V after 3sec. OFF: after full charged	Color: Orange Flashing: ON=0.5S,OFF=0.5S
75%	Flashing: 13.6/27.2V<Vbat<13.9/27.8V Steady: Vbat>13.9/27.8V after 3sec. OFF: after full charged	Color: Yellow Flashing: ON=0.5S,OFF=0.5S
100%	Flashing: 13.9/27.8V<Vbat<full charged Steady: Full charged after 3sec.	Color: Pure Green Flashing: ON=0.5S,OFF=0.5S
12V Recover(+)	Steady: Mode selected(3sec.) Flashing: Start charging after Step1 (Diagnosis) started. Steady: after go to 12V Small Cold charge, timer over 4hours, ERROR and full charged.	Color: Pure Green Flashing: ON=0.5S,OFF=0.5S

Principle programme representation 12V/ 24V Pb



Principle programme representation LiFePO4



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)

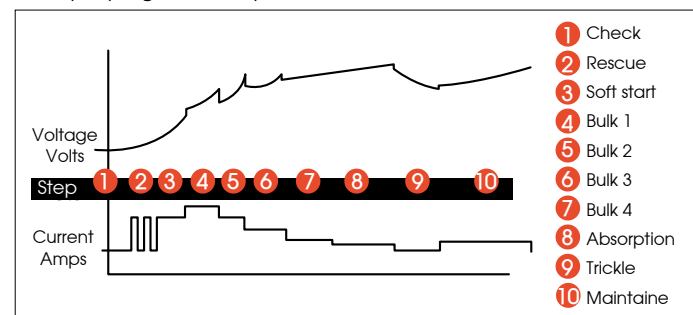
MW LF-CC075BT (Bluetooth version)



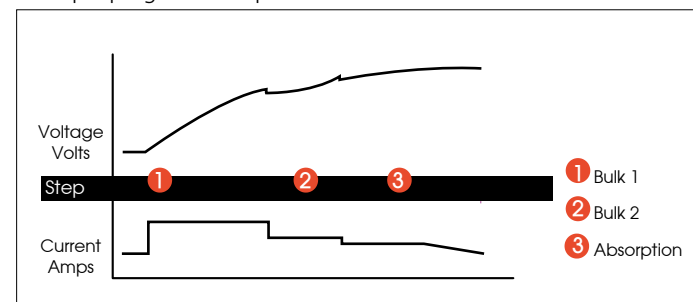
LCD indication:

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
	Mode selected: Lithium iron phosphate battery	On
	Mode selected: Recover 12V Lead acid battery	On
	Mode selected: Advanced AGM battery	On
	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



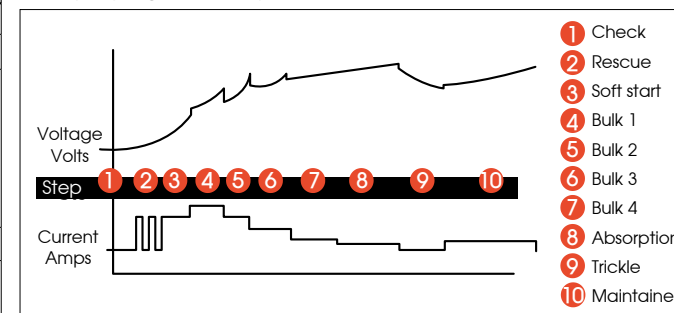
MW LF-CC075A (LED version)



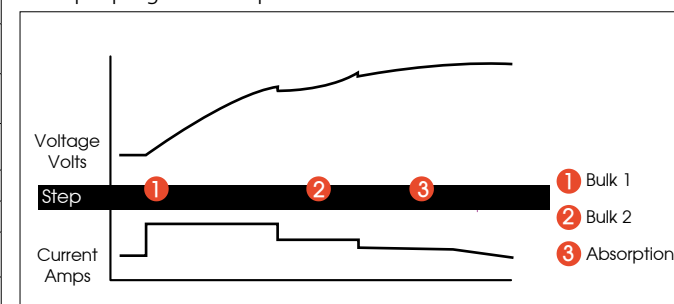
LCD indication:

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
	Mode selected: Lithium iron phosphate battery	On
	Mode selected: Recover 12V Lead acid battery	On
	Mode selected: Advanced AGM battery	On
	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 display



(App control)

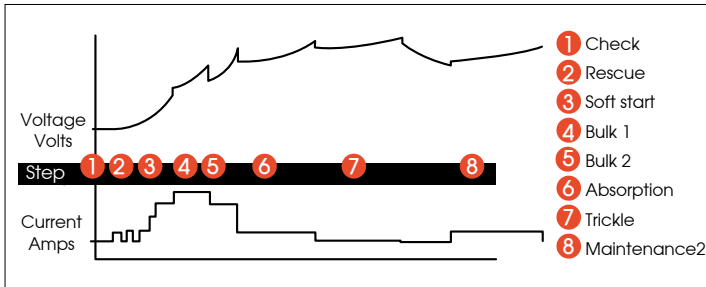
MW LF-CC040BT (Bluetooth version)



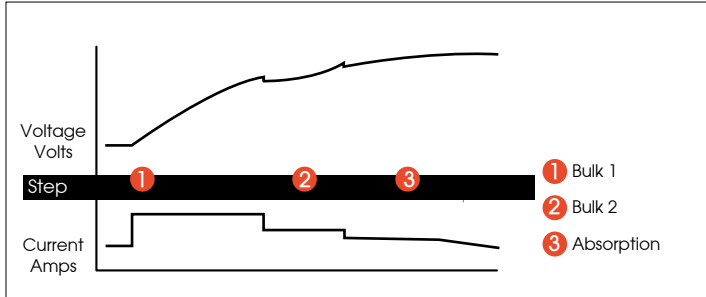
LCD indication:

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
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



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

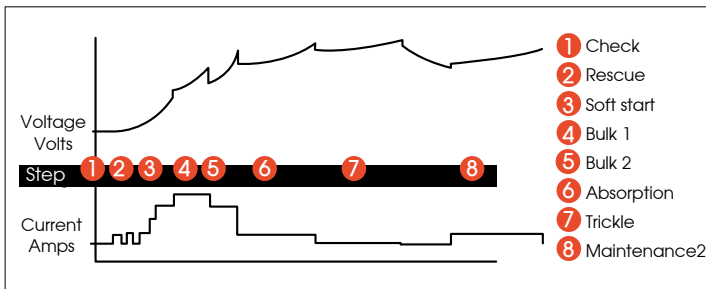
LCD display



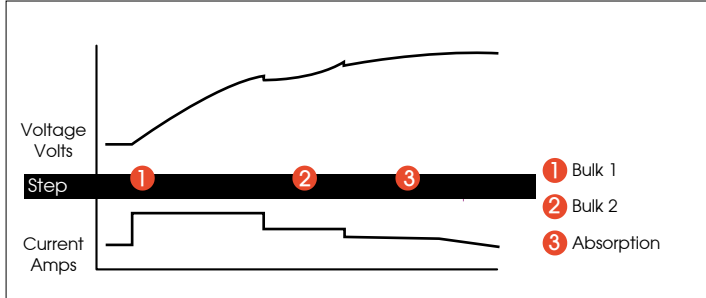
LCD indication:

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



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, 0.6A
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: 3.8A (normal)
12V lead acid: 3.8A (normal)
LiFePO4: 0.9A (small), 3.0A (normal)
Insulation: IP 65 (water & dust)

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

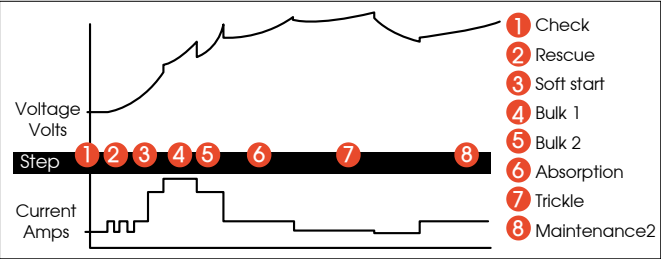
Packed with:
Fixed battery clamp connector
Dimension: 203.5 x 74 x 48mm
Packing: Individual color giftbox



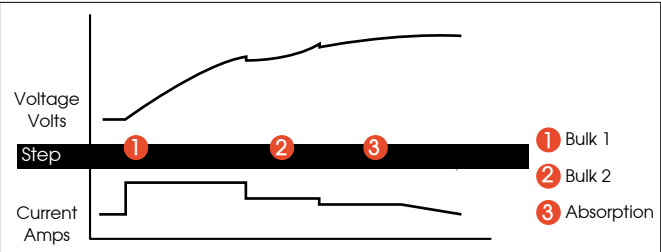
LED indication:

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.

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, 350mA
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

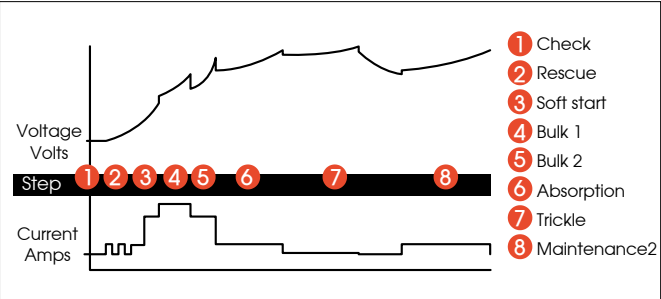
Packed with:
Fixed battery clamp connector
Dimension: 174 x 65 x 46.5mm
Packing: Individual color giftbox



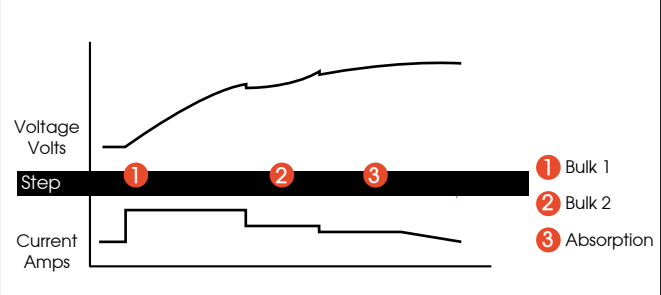
LED indication:

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:

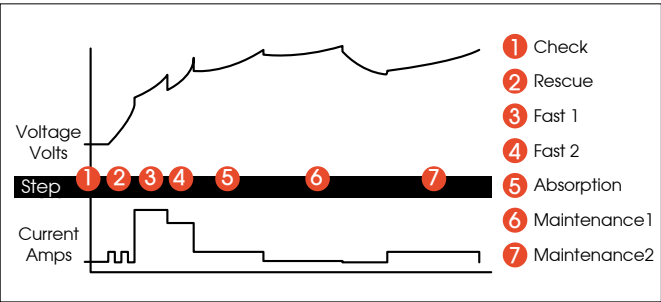
Dimension: 107 x 63 x 34mm
Packing: Individual color giftbox



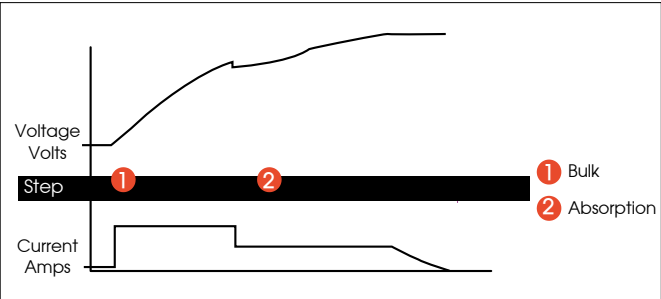
LED indication:

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



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, 600mA
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

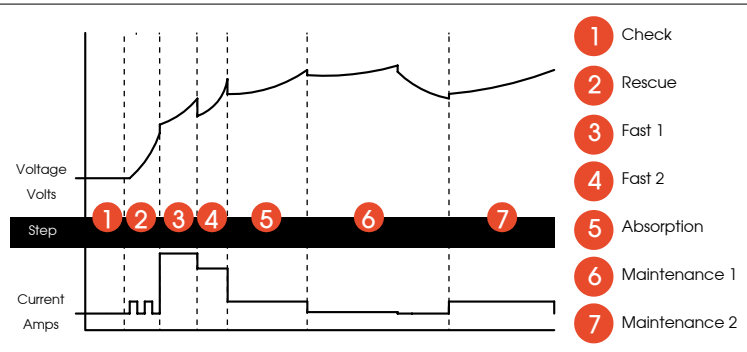
Dimension: 194 x 68 x 47mm
Packing: Individual color gift box



LED indication:

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

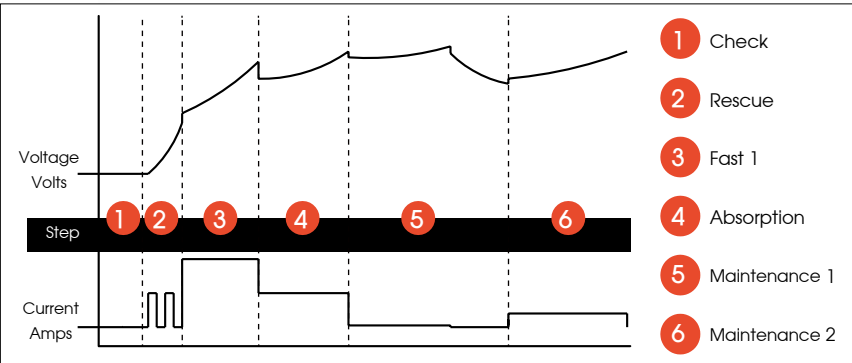
Dimension: 69 x 43 x 46mm
Packing: Individual color giftbox



LED indication:

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

Principle Programme representation



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

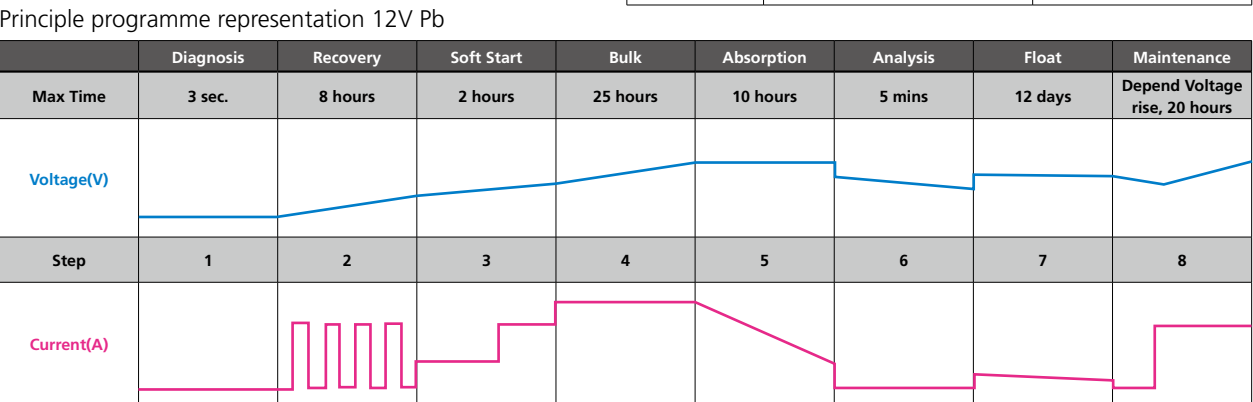
Input: 220-240V AC, 50/60Hz, 0.6A
Output current: 2.5A/ 4.0A (max)
Charging voltage: 2.0V-14.8V
Charging current:
12V (Normal): 2.0-10.5V @2.5A
12-14.8V @4.0A

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



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

Input: 220-240V AC, 50/60Hz, 1.2A
Output current: Channel (1) 2.5A/4.0A
Channel (2) 2.5A/4.0A
Charging voltage: Channel (1) 2.0V-14.8V
Channel (2) 2.0V-14.8V

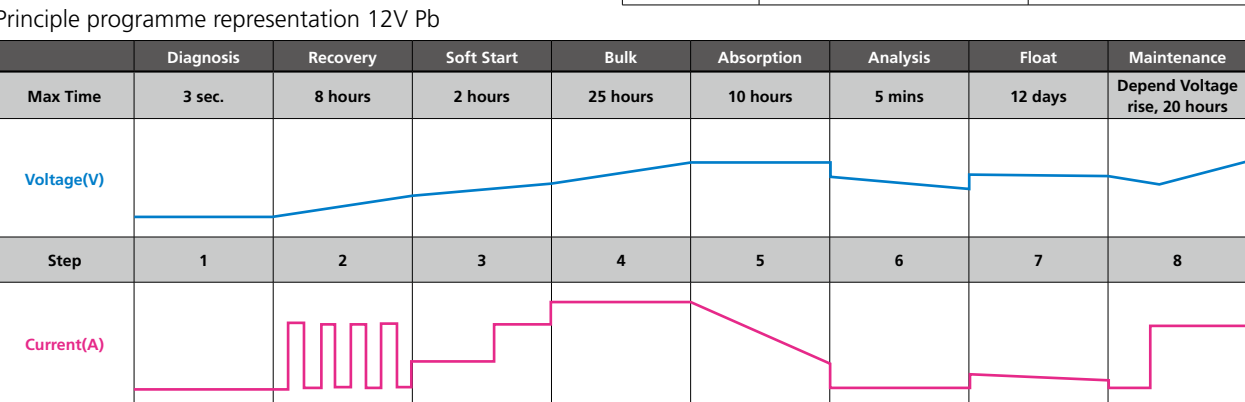
Charging current:
12V (Normal): 2.0-10.5V @2.5A
12-14.8V @4.0A

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



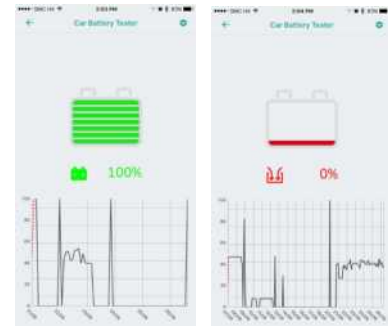
Below MW337BT is an intelligent Bluetooth battery tester for checking the car battery status on your iOS/Android mobile devices. Now you can check your car battery condition in your car and without opening the hood with the built-in Bluetooth module.

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

2WR-LC-RC/0.4/1A

0.4m Supporting Wire for Car Battery Charger

New



EB-04 plug to terminal Wire (3.5*7.0MM)

Model Number	Length
2WR-LC-RC/100/1A	1m

2WR-LC-RCF/0.4/1A

0.4m Supporting Wire for Car Battery Charger W/Fuse

New



EB-04 plug to terminal Wire with Fuse Clip (3.5*7.0MM)

2WR-LC-CC/0.4/1A

0.4m Supporting Wire for Car Battery Charger

New



EB-04 plug to Alligator Clip (3.5*7.0MM)

2WR-LC-CCF/0.4/1A

0.4m Supporting Wire for Car Battery Charger W/Fuse

New



EB-04 plug to Alligator Clip with Fuse Clip (3.5*7.0MM)

USB Power AC

USB Power DC

MFi

Notebook Power

MW 606HCN

Tiny 6V Lead Acid Battery Charger

Input: 100-240V AC, 60/50Hz
Charging current: 600mA
Charging voltage: 6.0V
Float output voltage: 7.2-8.4V
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



Battery Charger & Powerbank

Gaming Accessories

Multiple Output Power

MW 1210HCN

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: 6.0-14.0V
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



USB Power AC

USB Power DC

MFi

Notebook Power

MW NN-CC003A

Ni-MH Battery Pack Charger

Input voltage: 220-240V AC, 60/50Hz
Output: 4.8V/ 350mA; 9.6V/220mA
*Protection: Short circuit and polarity
LED indication: Red LED power display
Dimension: 68.35 x 38.68 x 68.41mm
Packing: Individual clamshell blister



Battery Charger & Powerbank

Gaming Accessories

Multiple Output Power

MW LL-CC010A

Universal Li-ion/Polymer Battery Pack Charger

Input voltage: 100-240V AC, 60/50Hz
Output Voltage: Li-ion:3.7V/8.4V/11.1V/14.8V DC
Output Current: Li-ion:3.7V @1A/1 cell
Li-ion:7.4V @1A/2 cells
Li-ion:11.1V @1A/3 cells
Li-ion:14.8V @1A/4 cells
LED indication: Charging – Green LED flashes
Full – Green LED on
Discharge – Red and Green LED flashes alternatively
Error – Red LED flashes
Dimension: 138 x 246 x 39.2mm
Packing: Individual color giftbox



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.62-65

Universal CCCV Battery Chargers — P.66-69

Ni-Cd/ Ni-MH Battery Chargers — P.70

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 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 51x 24mm
Packing: Individual clamshell blister



MW BU22-66C

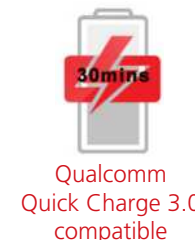


6600mAh All-In-One Compact Powerbank

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 BU23-88C

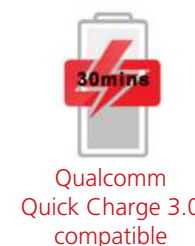


8800mAh All-In-One Compact Powerbank

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-104CGS

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



GS Approved

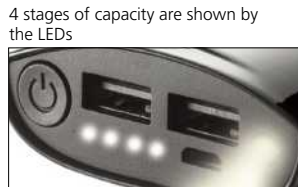


Samsung Batteries available as option

MW BU16GS-52CGS

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



GS Approved



Samsung Batteries available as option

MW BU15GS-26CGS

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



GS Approved



Samsung Batteries available as option

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



MW I316

Universal CCCV/ ΔV 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



	Charging for battery (with AC input)	Charging for battery (with PC USB input)
USB output	5V/1000mA	5V/500mA
No USB loading	3.7V/600mA	3.7V/300mA
	7.4V/500mA	7.4V/250mA
	2.4V/1000mA	2.4V/500mA
USB output(<500mA)	3.7V/300mA	
	7.4V/250mA	
	2.4V/500mA	0mA
USB output(>500mA)	0mA	0mA

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/ ΔV Charging Docking for Li-polymer/Li-ion battery & Ni-Cd/ Ni-MH battery w/ USB Outlet and LCD Panel

- 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

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

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



MW AA01V-4U

Universal Multiple Channel Ni-MH/Ni-Cd Battery Charger

Input voltage: 100-240V AC, 50Hz
Output: (Slot 1-2 / Slot 3-4): 2.4V; 150mA for AA / AAA size
Channel: 4 PCS compatible channel of AA/AAA
*Protection: Short circuit and polarity
LED indication: Charging – Red LED on
Dimension: 105 x 44 x 80mm
Packing: Individual clamshell blister



MW AA02V-4U

Universal Multiple Channel Ni-MH/Ni-Cd Battery Charger

Input voltage: 100-240V AC, 50Hz
Output: Channel 1-4: 1.2V; 200mA for AA / 50mA for AAA size
Channel 5-6: 9V, 13mA for 9V block
*Protection: Short circuit and polarity
*Charge & Discharge function: Switch button on the front
LED indication: Charging – Red LED on
Dimension: 108 x 68 x 30.8mm
Packing: Individual clamshell blister



MW AA02V-6U

Universal Multiple Channel Ni-MH/Ni-Cd Battery Charger

Input voltage: 100-240V AC, 50Hz
Output: Channel 1-4: 1.2V; 270mA for AA/C/D /AAA size
Channel 5-6: 9V, 13mA for 9V block
*Protection: Short circuit and polarity
*Charge & Discharge function: Switch button on the front
*Timer Function : 20 hours for AAA /AA / C / D size
LED indication: Charging – Red LED on
Full - Green LED ON
Discharging – Red and Green LED flashes alternatively
Dimension: 143 x 180 x 54.5mm
Packing: Individual color giftbox



MW AA18-4LCD

Universal Li-ion & Ni-MH

Battery Charger w/ Bluetooth Contorl

Input voltage: 5V/2A; 12V/1.5A(QC)

Output; Voltage: 4 x 1.4V (max. 1.85V) (AA/AAA)
4 x 4.2V (Li-ion, 18650)

Output: NiMH - Selectable 1500mA / 800mA / 500mA

USB: 5V/1A

*Protection: Short circuit and Reverse battery polarity

*Discharge Function

*Trickle Charge

*Safety Timmer

*LCD Display

Dimension: 105 x 44 x 80mm

Packing: Individual clamshell blister



MW AA10V-8

Universal Multiple Channel Ni-MH/Ni-Cd Battery Charger

Input voltage: 100-240V AC, 50Hz

Output: Channel 1-8: 1.2V; 1000mA for AA / 500mA for AAA size

Channel 9-10: 9V, 70mA for 9V block

Trickle Charge: AA: 100mA

AAA: 50mA

*Protection: Short circuit and polarity

*Discharge Function: Button on the front

*Full Detection: -dV; 0 dV;

Safety timer (AA: 6 hrs, AAA: 5 hrs, 9V Block: n/a);

Max battery voltage (1.65V)

LED indication:

Charging – Red LED on

Full – Green LED on

Discharge – Red and Green LED flashes alternatively

Error – Red LED flashes

Dimension: 138 x 246 x 39.2mm

Packing: Individual color giftbox



MW LFAA07L-4U

Plug-in Universal Multiple Channel Ni-MH/Ni-Cd & Li-ion
Battery Charger W/ LCD display

Input voltage: 100-240V AC, 50Hz

Output: 1.4V*4; 700mA for AA Ni-MH/Ni-Cd

3.7V*4; 700mA for AA Li-ion

Trickle Charge: 70mA

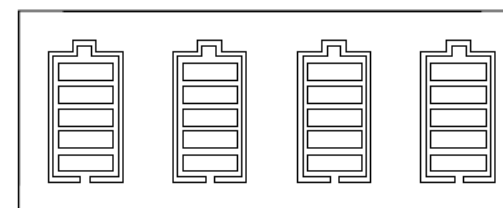
*Protection: Short circuit and polarity

*Timmer Function: 10 hours (Not applicable for Li-ion battery)

*End of Charge: dV:

after regular charging mode, go to trickle charge mode

LCD indication:



Dimension: 122 x 78 x 83.2mm

Packing: Individual clamshell blister



USB Power AC

USB Power DC

MFi

Notebook Power

Automobile Power

Battery Charger & Powerbank

Gaming Accessories

Multiple Output Power

Smart Home

MW 8803

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

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

AAA size	500mA
AA size	1000mA
C or D size	1000mA
9V	70mA



MW 8802

Universal Multiple-Channel Ni-MH/Ni-Cd charger

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

AAA size	1000mA
AA size	1000mA
C or D size	1000mA
9V	30mA



MW AA05V-4U

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

Input voltage: 100-240V AC, 60/50Hz
Charging current: 4 x 1.2V/ 500mA (AA/AAA),
or 2 x 9V/ 13mA (Block 9V)
LED indication: Red LED (Regular), Green LED (Trickle) AA/AAA
Red LED (Regular), Red off (Full) 9V
Flashing Red LED (Detection of faulty batteries) AA/AAA
AV Detection
Dimension: 108 x 68 x 30.8mm
Packing: Individual clamshell blister



Gaming Accessories

Notes:

- XBox power P.72-75
- PS5 power P.73
- Nintendo Switch P.75

MW XBOXCDA

Xbox series X/S Charging Base

Rechargeable battery type: 2PCS Ni-MH 1200mAh battery

Channel: 2 charging channels

Input: USB 5V/DC (USB C socket)

Output: 5V/500mA per channels (max)

LED indication: Stand-by: LED off

Charging: Orange LED on

Full: Green LED on

Dimension: 244.6 x 127.8 x 147.7 mm

Package include: 1M Type-C cable

Packing: Individual color gift-box

New



LED indication
when charging



*LED indication for reference only



MW PS5CDA

New Play Station 5 Charging Base

Channel: 2 charging channels

Input: 5V/DC (USB C socket)

Output: 5V/0.5A per channel (max)

LED indication: Stand-by: LED off

Charging: Orange LED on

Full: Green LED on

Dimension: 244.6 x 127.8 x 147.7 mm

Package include: 1M Type-C cable

Packing: Individual color gift-box

New



LED indication
when charging



*LED indication for reference only



Below items are our ALL-NEW gaming power accessories specify designs for the Xbox console. Never worry about running out of battery power for your controllers during play again.

MW XB-085-2

New Xbox One Power Kit

Rechargeable battery type: 2PCS Ni-MH battery
Channel: 1 channel
Input: USB 5V/500mA
Output: 2.4V/400mA max
Accessories: USB CABLE with 4 pcs LED
Dimension: 39.7 x 38.8 x 39 mm
Inner battery: 2 x 1.2V / capacity 850mAh
Packing: Individual color gift-box



MW XB-120-2

Charge Base for Xbox One™

Rechargeable battery type: 2PCS Ni-MH battery
Channel: 2 channel
Input: AC100-240V, 50/60Hz 1.8m NISPT-2 cable with UL plug
Output: 3.4V/1A max
LED indication: Power LED white/ red/ yellow/ green
Dimension: 210 x 57.9 x 56.6 mm
Package include: 2 x 1.2V NI-MH battery
Packing: Individual color gift-box



MW XBP-140-2

New Xbox One(TM) Charge Base

Rechargeable battery type: XBOX 360 wireless controller + 2.4V Ni-MH battery pack
Channel: 1PCS channel
Input: DC 5V with USB plug
Output: XBOX 360 plug
for XBOX 360 wireless controller charging
Wire length: 3.6m with input and output plug 4.0mm five core Shielded wire
LED indication: Power LED red/ green
Dimension: 39.7 x 38.8 x 39 mm
Weight: Approx 140g
exclude packing and battery
Packing: Individual clamshell blister



MW XB3-140-2

Xbox 360 Pro Power Kit

Rechargeable battery type:
XBOX 360 wireless controller + 2.4V Ni-MH battery pack
Channel: 1PCS channel
Input: DC 5V with USB plug
Output: XBOX 360 plug
for XBOX 360 wireless controller charging
Wire length: 3.6m with input and output plug 4.0mm five core Shielded wire
LED indication: Power LED red/ green
Dimension: 39.7 x 38.8 x 39 mm
Packing: Individual clamshell blister



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

MW NS39A



All-New 39W Plug-in Type-C charger

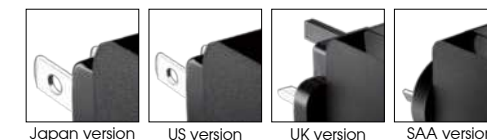
for Nintendo Switch

ErP 3rd 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



MW NS39D

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

Input voltage: 12-24V DC
Output voltage: 5V DC
Output current: 3.4A
Output plug: Type-C (1m fixed cable)
LED indication: Power LED Blue
Dimension: 69 x 48 x 28.6mm



Multiple Output Power

Notes:

80W Universal Power Supply ——— P.77

3.6W-36W AC/DC Adaptor ——— P.78-81

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 3rd stage compliance

CEC efficiency: Level ④

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



Dial switch for voltage & current adjust



Selectable output range



EU version



US version



UK version



SAA version

MW ME30PU

36W AC/DC Switching Apaptor W/ LCD Display

ErP 3rd stage compliance

CEC efficiency: Level ④

MEPS: VI

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

Output Voltage: 5-24V DC

Output Current: 5-12V/3A; 13V/2.7A; 14V/2.5A; 15V/2.4A; 16V/2.2A; 17V/2.1A;

18V/2.0A; 19V/1.88A; 20V/1.8A; 21V/1.7A; 22V/1.63A; 23V/1.56A; 24V/1.5A

LCD Display:

88V

Dimension: 115 x 51 x 32mm

Packing: Individual color giftbox

✓ Over voltage protection

✓ Over current protection

✓ Short circuit protection

✓ Memory function

New



FNUSB



FUSB



FMUSB



MW MC30PU

40W AC/DC Switching Apaptor

ErP 3rd stage compliance

CEC efficiency: Level ④

MEPS: VI

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

Output Voltage: 5.0/6.0/7.5/9.0/12.0/13.5/15.0V DC

Output Current: 5.0/6.0/7.5/9.0/12.0V@3A; 13.5/15.0V@2.67A

LED Indication: Indicate the selected voltage

Dimension: 104 x 51 x 71mm

Packing: Individual color giftbox

✓ Over voltage protection

✓ Over current protection

✓ Short circuit protection

✓ Memory function

New



FNUSB



FUSB



FMUSB



MW MD40PU

60W AC/DC Switching Apaptor

ErP 3rd stage compliance

CEC efficiency: Level ⑤

MEPS: VI

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

Output Voltage: 12.0 / 15.0 / 16.0 / 18.5 / 19.0 / 20.0 / 24.0V DC

Output Current: 4A @ 12.0 / 15.0V;

3A @ 16.0 / 18.5 / 19.0 / 20.0V; 2.5A @ 24.0V

LED Indication: Indicate the selected voltage

Dimension: 118 x 51 x 71mm

Packing: Individual color giftbox

Contact our sales person to check out the compatible products

✓ Over voltage protection

✓ Over current protection

✓ Short circuit protection

✓ Memory function



MW MA06PU

7.2W AC/DC Switching Adaptor

ErP 3rd stage compliance

CEC efficiency: Level ⑤

MEPS: VI

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.

- ✓ Over voltage protection
- ✓ Over current protection
- ✓ Short circuit protection
- ✓ Memory function



MW MB10PU

12W AC/DC Switching Adaptor

ErP 3rd stage compliance

CEC efficiency: Level ⑤

MEPS: VI

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.

- ✓ Over voltage protection
- ✓ Over current protection
- ✓ Short circuit protection
- ✓ Memory function



MW MA03

3.6W AC/DC Switching Adaptor

ErP 3rd stage compliance

CEC efficiency: Level ⑤

MEPS: VI

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

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.



MW MA06

7.2W AC/DC Switching Adaptor

ErP 3rd stage compliance

CEC efficiency: Level ⑤

MEPS: VI

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.



CE V#

MW MA06HT



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

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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 MB10



12W AC/DC Switching Adaptor

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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 MB10HT



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

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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 MC15



18W AC/DC Switching Adaptor

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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 MD15



24W AC/DC Switching Adaptor

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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
24V DC, 1.0A
With Power LED
Dimension: 88 x 51 x 42mm
Packing: Individual color giftbox



MW MD25



27W AC/DC Switching Adaptor

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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 ME25



27W AC/DC Switching Adaptor

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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 MG36



36W AC/DC Switching Adaptor

ErP 3rd stage compliance
CEC efficiency: Level ④
MEPS: VI

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



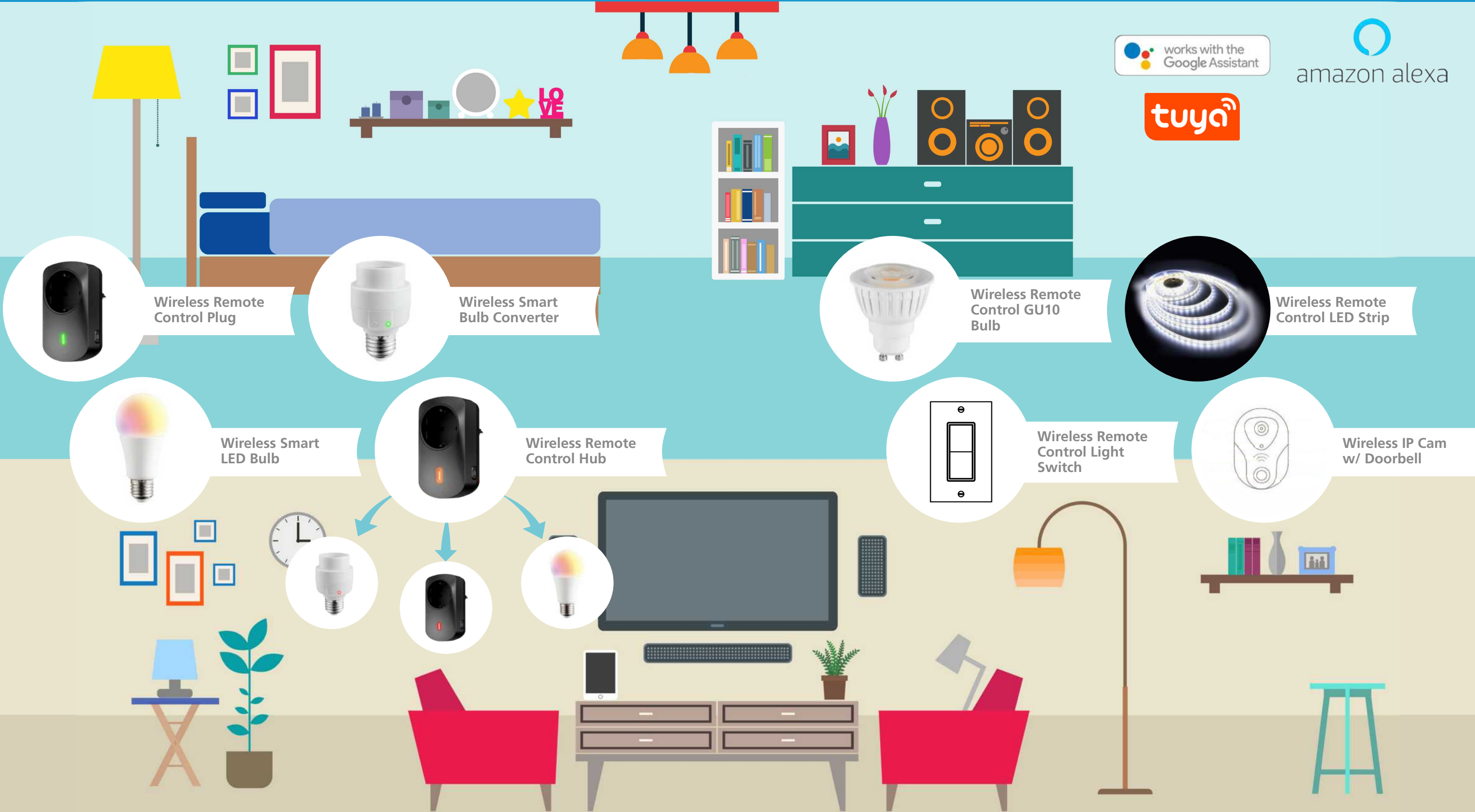
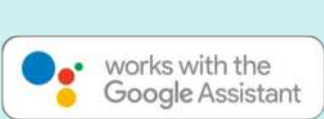
Smart Home Automation by Minwa

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



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 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

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.



MW WFAS01TU-SEL

New



Works with
Apple HomeKit
available

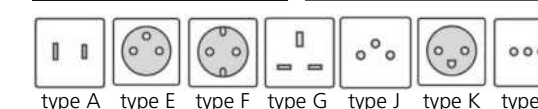
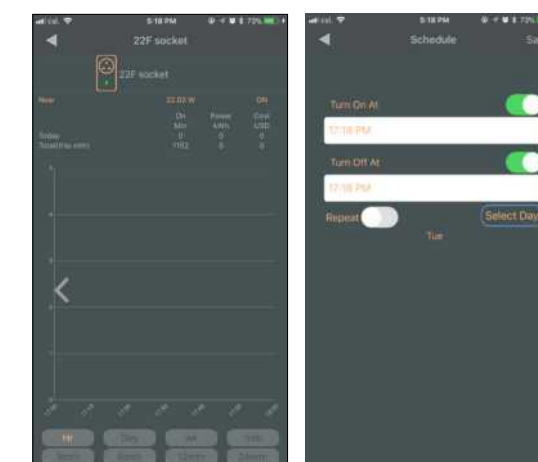
amazon alexa

works with the
Google Assistant

tuya

Wi-Fi

compatible



type A type E type F type G type J type K type L



USB Power AC

USB Power DC

MFI

Notebook Power

Automobile Power

Battery Charger & Powerbank

Gaming Accessories

Multiple Output Power

Smart Home

85

Smart Home

84

MW LED-LSW1065RGBW

Wireless Remote Control LED strip set w/RGBW

ErP 2nd stage compliance

CEC efficiency: ⑤

MEPS: V

Input voltage: 220-240V AC, 50Hz

Lumen per meter: 900lm

Dimension: 1m

Max extend: 5m

Insulation: IP65 (water & dust)

Packing: Individual color giftbox

Set include: IP65 LED strip 1m RGBW,

Wifi controller, Power supply

1) Specification is varied from

different counties' version

2) HomeKit option is available

New



Model Number	Insulation
LED-LSW1020RGBW	IP20

LED-LSW1065W/CW/D

Wireless Remote Control LED strip set w/Color Temperature control

ErP 2nd stage compliance

CEC efficiency: ⑤

MEPS: V

Input voltage: 220-240V AC, 50Hz

Color Temperature: 2700K/ 3000K/ 6000K

Dimension: 1m

Max extend: 5m

Insulation: IP65 (water & dust)

Packing: Individual color giftbox

Set include: IP65 LED strip 1m RGBW,

Wifi controller, Power supply

1) Specification is varied from

different counties' version

2) HomeKit option is available

New



Model Number	Insulation
LED-LSW1020W/CW/D	IP20

LED-EMH05DE

Wireless Smart Bulb

Converter w/ Wi-Fi Technology

ErP 2nd stage compliance

CEC efficiency: ⑥

MEPS: VI

Input voltage:

220-240V AC, 50/60Hz

Light Bulb Type:

Light bulb compatibility

LED lamp Energy saving lamp

Incandescent lamp

(dimable or non-dimable)

Socket: E27

Bulb's Max Power:

25W (max)

LED indication:

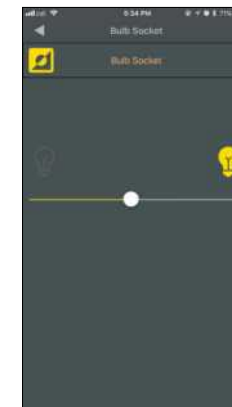
Power LED Green

Dimension:

Φ50*79.8mm

Packing:

Individual color giftbox



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: ⑥

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, Wat 48

RGBW: lumens 540, Watt 44



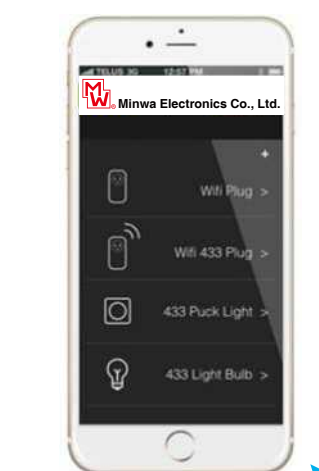
New



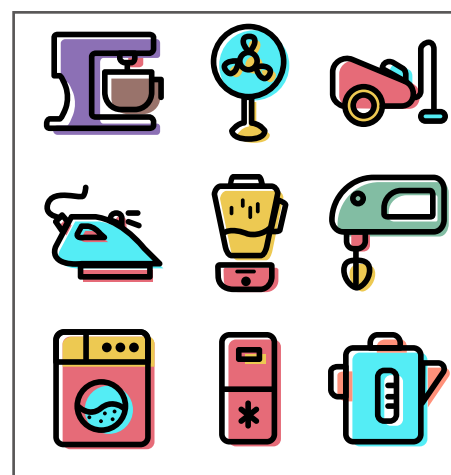
Introducing the innovative WiFi integrated RF (Radio Frequency) Technology



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

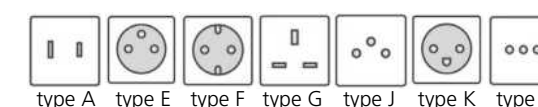
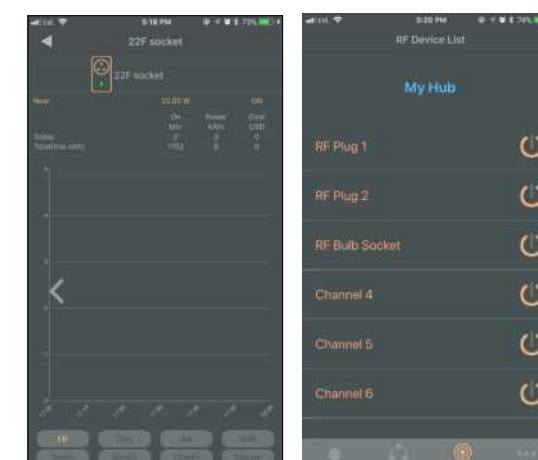
Dimension: 100 x 53 x 51mm

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



available



compatible

MW BTAS01

Wireless Remote Control Plug w/ Bluetooth MESH Technology

ErP 2nd stage compliance

CEC efficiency: ⑦

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

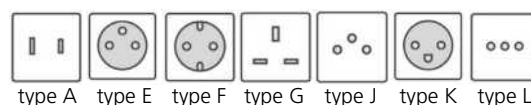
LED indication:

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: ⑦

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:

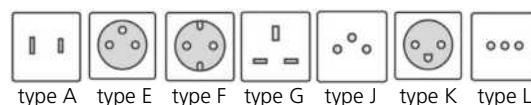
Output LED Red

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 Byphenyls, Polybrominated Dyphenyl 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 harzard 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).

FSC CERTIFICATION

The future of the world's forests is very important to the planet, to animals, to businesses, to all of us. That's why FSC certification exists. ... Being FSC certified means that your forest, or supply chain, is managed responsibly; that Minwa is complying with their environmental, social, and economic standards.

We provide various products with reliability, affordability and environmental friendly, contact us today at sales@minwa.com.hk for details.

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