

POWERTECH

MP3743

MPPT Solar Charge Controller

for Lithium or SLA Batteries

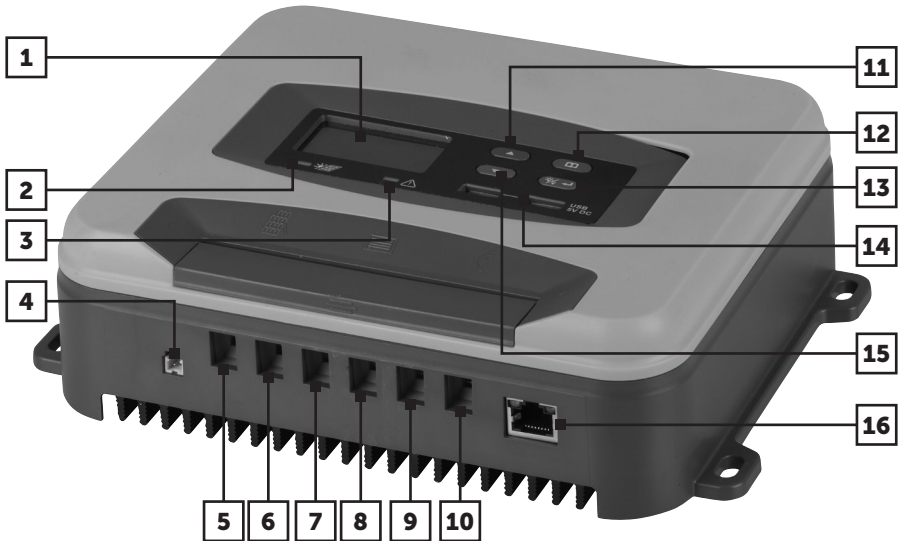


Instruction Manual

BOX CONTENTS:

- 1 x 12V/24V 30A MPPT Solar Charge Controller
- 1 x External Temperature Sensor
- 1 x User Guide
- 1 x App Guide

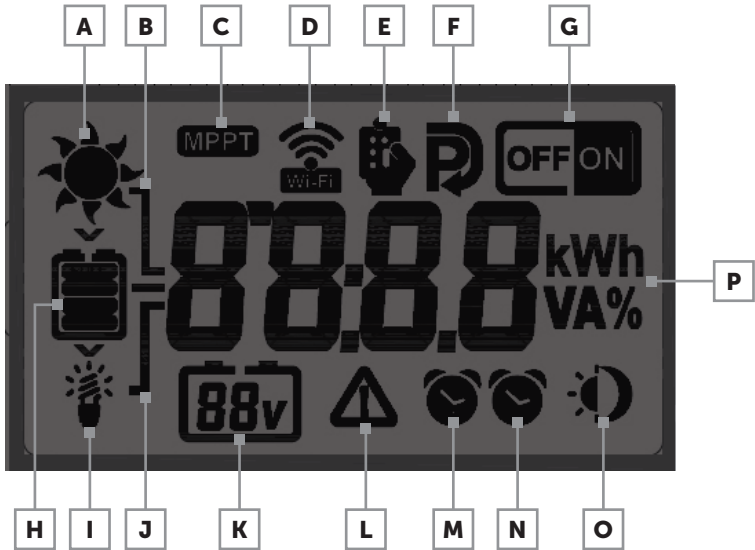
PRODUCT DIAGRAM:



1	LCD Screen
2	Green Indicator LED
3	Red indicator LED
4	External Temperature Probe
5	Solar Positive Input
6	Solar Negative Input
7	Battery Positive Input
8	Battery Negative Input

9	Load Positive Output
10	Load Negative Output
11	Up Button
12	Menu Button
13	Enter Button
14	USB Outputs
15	Down Button
16	Ethernet Socket

LCD SCREEN:



A	Solar Input Indicator
B	Solar Current Indicator
C	MPPT Charging Indicator
D	WiFi Indicator
E	Remote Control Indicator
F	Setting Mode Indicator
G	Load Switch Indicator
H	Battery capacity indicator

I	Load indicator
J	Display indicator for current reading
K	Battery type (12/24V)
L	Protection Icon – See error codes
M	Timing clock
N	Timing clock
O	Day/night indicator – set by PV input
P	Reading display with unit type

BASIC FUNCTIONS:

Settings Menu

If the display is off, tap the Menu button to turn it on.

Press & hold the Menu button to enter the settings menu, and tap the Menu button again to cycle through each setting in the following order. Use the Enter button to enter / save a setting.

#	Menu Item	Options
1	Battery Type	Standard (STD) / Lithium (L) / AGM (A)
2	WiFi	On / Off
3	Load Voltage Protection Cut Off	10 – 11.5V (12V) – Default 10V 20 – 23V (24V) – Default 20V
4	Load Under Voltage Recovery	12 – 13V (12V) – Default 12.5V 24 – 26V (24V) – Default 25V
5	24 Mode	On / Off
6	Time	Hours / Minutes
7	Load Timer	On / Off When turned on, the next setting is used to set the Load on time

Factory Reset

With the unit turned off, press & hold the Menu button & power up the controller via the battery input. The screen will display FFFF to indicate all settings have been factory reset.

FAULT CODES:

E1	Battery has been installed with the polarity reversed.
E2	Battery is not currently connected, or is under the low voltage cut off.
E3	Battery over current protection enabled. If the issue persists, the controller may be faulty.
E4	Load over current / short circuit protection. Turn off the machine for 10 seconds to reset.
E5	Battery over voltage protection.
E6	Solar input over voltage protection.
E7	Over temperature protection. Charging will restart once the temperature is under 60°C.
E8	Solar input has been installed with the polarity reversed.

SPECIFICATIONS:

SOLAR

Maximum PV Open Circuit Voltage:	100V
MMPT Voltage:	16 – 80VDC
Maximum PV Input Power:	450W (12VDC) / 900W (24VDC)
Maximum MPPT Current:	30A

DC OUTPUT

Battery Voltage:	12/24VDC
Output Current:	30A

USB OUTPUT

Output Voltage	5VDC
Number of USB Ports	2
Maximum Output Current:	3.4A

STANDBY CURRENT

MPPT Charger Only:	60mA
MPPT Charger & WiFi:	160mA

PROTECTIVE FUNCTIONS

High / Low Voltage Protection:	High: 15V (12V) / 31V (24V) Low: 8V (12VDC) / 18V (24VDC)
Reverse Polarity Protection:	Yes
Temperature Cut Off:	90°C

GENERAL

Dimensions:	238 x 177 x 63mm
Weight:	1.5kg
Operating Temperature:	-10°C – 40°C
Cooling method:	Heatsink
Insulation Class:	Class 1
IP Rating	IP30

NOTES:

Distributed by:
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