

MPPT Solar Charge Controller

M series

M4860



Product Features

- Advanced MPPT scanning technology & effective temperature management, ensuring efficient, reliable and lasting solar DC charge.
- Oversize heating sink design, along with PCBA glued with polyurethane & silicon mixture, for better system cooling and waterproof, to improve solar charge efficiency.
- External Bluetooth communication module allowed to be connected in, for APP monitoring and operation in mobile phone.
- Supports multiple modes of DC load output control. “DC load short circuit protection” allowed to be canceled manually; “Equalize charge” allowed to be enforced manually.



CE RoHS IEC62509:2010 APP Operation

Full-range protection



Overcharge Protection



Over-discharge Protection



Short-circuit Protection



Reverse Protection



Overheat Protection



Overload Protection

Product dimension	Accessory	APP

Controller Parameter	Value
Model No.	M4860
Battery System Voltage	12V/24V/36V/48V Auto (FLD/GEL/SEL/USE) Manual (Li/USE)
No-load Loss	12mA/12V;10mA/24V;6mA/36V;6mA/48V
Max Solar Input Voltage	<150Voc
Rated Solar Charge Current	60A
Max Solar Input Power	900W/12V;1800W/24V 2600W/36V;3200W/48V
Light Control Voltage	5V*n
Light Control Delay Time	10s
Max Load Output Current	20A
Operating Temperature	-35°C ~ +45°C
IP Protection	IP32
Net Weight	4.55kg
Communication Port	RS485(RJ12)
Operating Altitude	≤ 3000 m
Controller Dimension	280*210*102.7mm

Battery Voltages	Battery Parameters				
	FLD	SEL	GEL (default)	USE (adjustable)	LI (adjustable)
Battery Types					
Equalize Charge Voltage	14.8V*n	14.6V*n	-	Default	-
Boost Charge Voltage	14.6V*n	14.4V*n	14.2V*n	Default: GEL	Default: 14.2V*n
Float Charge Voltage		13.8V*n		Default: GEL	-
Boost Charge Recovery Voltage		13.2V*n		Default: GEL	-
Over-discharge Recovery Voltage		12.6V*n		Default: GEL	-
Over-discharge Voltage		11.1V*n		Default: GEL	Default: 11.1V*n
Auto Temperature Compensation		-3mV/2V/°C		Default: GEL	-

Accessory List	Package Status
External Temperature Sensor	Yes
Remote LCD Meter	Optional
Bluetooth Module	Optional
Parallel Charge Use Cable	Optional
Installation Guidance Pape	Yes
User Manual	Yes