

# MPPT Solar Charge Controller

## BT-APP / Negative Grounded

### M series

M4850N/M4860N



### 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.
- In-built Bluetooth communication module, for APP monitoring and operation in mobile phone. External BT module also supportable.
- 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	
 M4850N Model		 M4860N Model		 Charge Pro 2.0	
Controller Parameter	Value				
Model No.	M4850N		M4860N		
System Wiring	Negative Grounded				
Battery System Voltage	12V/24V Auto (FLD/GEL/SEL/USE) Manual (Li/USE)				
No-load Loss	12mA/12V;10mA/24V;5mA/36V;6mA/48V				
Max Solar Input Voltage	<150Voc				
Rated Solar Charge Current	50A		60A		
Max Solar Input Power	750W/12V;1500W/24V 2200W/36V;2700W/48V		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	3.0kg		4.55kg		
Communication Port	RS485+Bluetooth (APP)				
Operating Altitude	≤ 3000 m				
Controller Dimension	280*210*96.6mm		280*210*102.7mm		
Battery Voltages		Battery Parameters			
Battery Types	FLD	SEL	GEL (default)	USE (adjustable)	LI (adjustable)
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		Yes / Inbuilt			
Parallel Charge Use Cable		Optional			
Installation Guidance Paper		Yes			
User Manual		Yes			