

Overview

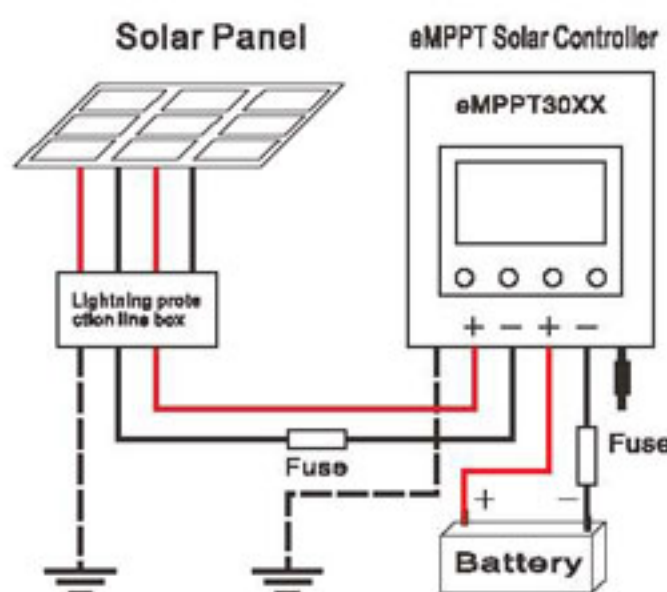
The product adopts DC/DC converting technology and MCU technology. It can adjust the working point of the solar panels array intelligently to make the solar panels array realize the maximum power output. When the external condition changes, eMPPT controller bases on the MCU theory to track the maximum working point of the solar panels, this can improve the using efficiency of the solar panels and decrease the solar generating cost. Compared with average solar charge controllers, eMPPT can improve the output efficiency of the solar panels by 5% to 30 % (the output increasing proportion affected by the factors such as the attribute of the solar panels, environmental temperature and lighting conditions). The product adopts in big screen lattice LCD, and uses the vivid icons to indicate the parameters. It has concise and vivid interface. The product is wall mounting installation. Please refer to chapter 2.1 for the installing dimensions.

Feature

- ▶ Maximum power point tracking
- ▶ Battery reversed connection protection
- ▶ Anti-battery reverse discharge
- ▶ Anti-solar panels reverse connection
- ▶ Three-stage charge control
- ▶ Float charging voltage adjustable
- ▶ Internal overheating protection
- ▶ Temperature compensation for float charging voltage
- ▶ Elevating charging voltage adjustable
- ▶ Solar panel input deviated from maximum power point
- ▶ Temperature controlling fan
- ▶ Panel over voltage protection
- ▶ Remote controlling function



EMPPT3024Z-30A
EMPPT3048-30A



Wiring diagram



EMPPT6024Z-60A
EMPPT6048-60A

Technical Data

Model	EMPPT3024Z-30A	EMPPT6024Z-60A	EMPPT3048-30A	EMPPT6048-60A
Maximum charging current	30A	60A	30A	60A
Maximum PV voltage	≤70V		≤130V	
MPPT voltage range	12V-70V(12V)/24V-70V(24V)		48V-130V	
System voltage	12V/24V auto.		48V	
No load loss	≤45mA	≤50mA	≤45mA	≤50mA
Charging control mode	3 stage(bulk, absorption, float)			
Float charging voltage	13.8V/27.6V(adjustable)		55.2V(adjustable)	
Absorption voltage	14.4V/28.8V(adjustable)		57.6V	
Temperature compensation	-4Mv/cell/°C			
Battery type	Lead acid(GEL, AGM, Flooded)			
Maximum efficiency	97%			
Human interface	LCD display, button			
Cooling style	Thermostat active cooling			
Ambient temperature range	-10-50°C			
Humidity	0-90%, no condensation			