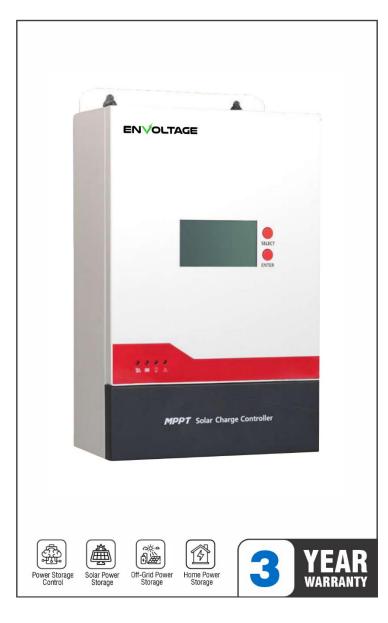


## **SOLAR CHARGE CONTROLLER**



#### **PRODUCT OVERVIEW**

EV-MF Series is a MPPT solar charge & discharge controller. Typically used in home and off grid power systems.

#### FEATURES

- FOR OFF-GRID APPLICATIONS Can be connected to both PV, battery and load; multiple load operating modes to meet diverse needs
- ALL-IN-ONE Supports multiple battery types; supports 1-16 parallel machines
- USER-FRIENDLY Easy to install and simple to use; natural cooling, absolutely quiet
- EFFICIENT MPPT with up to 99.9% efficiency; supports solar panels, 2 in series/more in parallel
- SAFETY Complete charge and discharge protection
  mechanism; high quality components for stable operation
- INTELLIGENT Supports RS232, RS485 communication; supports Bluetooth with mobile APP

#### APPLICATIONS

- Off grid solar systems
- Home solar systems

### **Product Description**

PART#	DESCRIPTION	RATED CURRENT	SYSTEM VOLTAGE	OPERATING VOLTAGE RANGE
EV-MF4860N15	MPPT Controller	60A	12V/24V/36V/48Vdc	9-64Vdc



**EV-MF Series** 

## Specifications

MODEL#	EV-MF4860N15			
PV INPUT				
Maximum Voltage of Open Circuit	150Vdc			
MPPT Voltage Range	(Battery voltage+2V) $\sim$ 120V			
Maximum PV Input Power	800W/12V, 1600W/24V, 2400W/36V, 3200W/48V			
BATTERY				
Battery Type	Lead-acid / Li-ion / User Defined			
Rated Battery Voltage	12/24/36/48Vdc			
Battery Voltage Range	9~64Vdc			
Rated Charging Current	60A			
MPPT Charging Mode	Buck			
LOAD				
Load Type	Resistive load, Capacitive load, Inductive load			
Rated Load Voltage	Equal to battery voltage 12V/24V/36V/48V			
Rated Load Current	40A			
Load Working Mode	Light control, Light control + Time control, Manual control (default), Debugging mode, Normal open			
EFFICIENCY				
MPPT Tracking Efficiency	>99%			
Maximum Charging Conversion Efficiency	≤98%			
ACCESSORIES				
Standard	BTS temperature sensors			
Optional	RS485 Communication line (RS485 to RS485), GP-2 IoT module			
GENERAL				
Communication	RS485			
Weight	3.6kg (7.94lb)			
Dimensions	275*167*90mm (0.90*0.55*0.30ft)			
Protection Degree	IP32			
Operating Temperature Range	-10°C ~ +65°C (14°F~149°F)			



# **SOLAR CHARGE CONTROLLER**

**EV-MF Series** 

#### **Wiring Diagram**

