



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

Specifications

MODEL#		EV-MF4860N15
PV INPUT		
Maximum Voltage of Open Circuit	150Vdc	
MPPT Voltage Range	(Battery voltage + 2V) ~ 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)	

Wiring Diagram

