

SOLAR CHARGE CONTROLLER

EV-MA Series



PRODUCT OVERVIEW

EV-MA 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; highly integrated, helps you save space and wire
- 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 TTL RS485 and CAN (RV-C protocol); 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-MA2430N15	MPPT Controller	30A	12V/24Vdc	8-32Vdc
EV-MA2440N15	MPPT Controller	40A	12V/24Vdc	8-32Vdc
EV-MA2460N15	MPPT Controller	60A	12V/24Vdc	8-32Vdc
EV-MA4830N15	MPPT Controller	30A	12V/24Vdc	8-64Vdc

Page | 1 envoltage.com



SOLAR CHARGE CONTROLLER

EV-MA Series

Specifications

MODEL#	EV-MA2430N15	EV-MA2440N15	EV-MA2460N15	EV-MA4830N15		
PV INPUT						
Maximum Voltage of Open Circuit	150Vdc					
MPPT Voltage Range	(Battery voltage+2V) ~ 110Vdc					
Maximum PV Input Power	400W/12V, 800W/24V	520W/12V, 1040W/24V	800W/12V, 1600W/24V	400W/12V, 800W/24V, 1200W/36V, 1600W/48V		
BATTERY						
Battery Type	USE/FLD/GEL/LI/SLD/ User Defined					
Rated Battery Voltage	12/24Vdc 12/24/36/48Vdc					
Battery Voltage Range		8~64Vdc				
Rated Charging Current	30A	40A	60A	30A		
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	30A	40A	60A	30A		
Load Working Mode	Light control, Light control + Time control, Manual control (default), Debugging mode, Normal open					
EFFICIENCY						
MPPT Tracking Efficiency	>99%					
Maximum Charging	85%~98% (Corresponding load power 10%~100%)					
Conversion Efficiency ACCESSORIES						
Optional	RS/185 com	nunications cable, RS485 8-cor	a flat black cable with two cryst	al connectors		
COMMUNICATION	1100 001111	Tidifications capic, 110400 0-cor	e nat black cable with two crysti			
TTL, RS485 (Default)		TTI Raud rate 060	Mkne RS/185 nort			
CAN (Optional)	TTL Baud rate 9600kps, RS485, port Optional (RV-C Protocol)					
Bluetooth (Optional)	External module BT-2 with mobile app					
GENERAL		External modulo B1	2 Will Mobile app			
Weight	2 3kn	(5.1lb)	3.4kg (7.5lb)	3.6kg (7.9lb)		
Dimensions	260*216*83.2mm (10*8.5*3.27in)		- , ,	n (10*8.5*3.87in)		
Protection Degree	IP32					
Operating Temperature Range	-35°C ~ +65°C (-31°F ~ 149°F)					

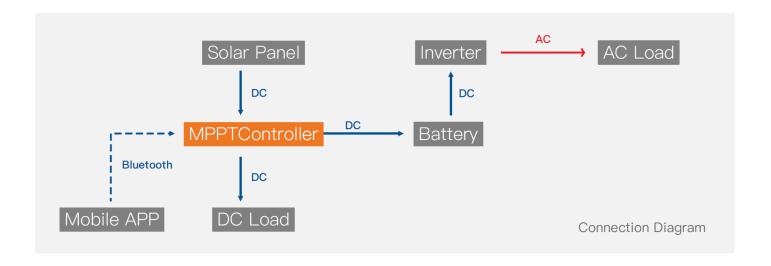
Page | 2 envoltage.com



SOLAR CHARGE CONTROLLER

EV-MA Series

Wiring Diagram



Page | 3 envoltage.com