PRODUCT OVERVIEW

EV-HP Series is a PWM charge controller with LCD display. Typically used in home and off grid power systems.

FEATURES

- Automatic identification of system voltage
- Supports charging gel batteries, sealed batteries, lead-acid batteries and lithium batteries
- Includes a 3-stage PWM charging algorithm that extends the life of the battery by preventing non-equalization and sulfuration.
- Temperature compensation function automatically adjusts charging parameters
- Multiple working modes to facilitate application to different types of loads
- Overcharge, over-discharge, overload, short-circuit and reverse connection protection
- Advanced startup method allows smooth startup of large capacitance loads
- RJ12 data port (outputs TTL232 level or Bluetooth signals) supports Modbus protocol and can interact with mobile phone app
- Durable industrial grade design
- TVS lightning protection

APPLICATIONS

- Off grid solar systems
- Home solar systems

Product Description

PART#	DESCRIPTION	RATED CURRENT	SYSTEM VOLTAGE	OPERATING VOLTAGE RANGE
EV-HP4830	PWM Controller	30A	12V/24/36/48Vdc	9-68Vdc
EV-HP4840	PWM Controller	40A	12V/24/36/48Vdc	9-68Vdc

Specifications

MODEL#	EV-HP4830	EV-HP4840
PV INPUT		
Maximum Voltage of Open Circuit	110Vdc	
Maximum PV Input Power	450W/12V 900W/24V 1350W/36V 1800W/48V	600W/12V 1200W/24V 1800W/36V 2400W/48V
BATTERY		
Battery Type	Lead-acid / Li-ion / User Defined	
Rated Battery Voltage	12/24/36/48Vdc	
Battery Voltage Range	9-68Vdc	
Rated Charging Current	30A	40A
Charging Mode	PWM charging is the default mode	
LOAD		
Load Working Mode	Light control, Light control + Time control, Manual control (default), Debugging mode, Normal open	
COMMUNICATION		
Optional	Bluetooth, TTL	
GENERAL		
Weight	650g (1.43lb)	
Dimensions	189.27*127.2*54mm	
Protection Degree	IP30	
Operating Temperature Range	-25°C ~ +55°C (-13°F~131°F)	

Wiring Diagram