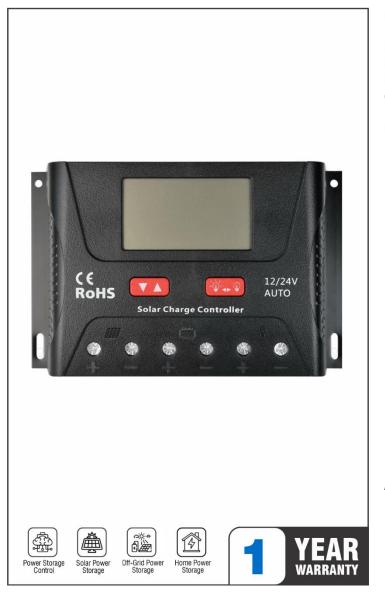


## **EV-HP Series PWM**



#### **PRODUCT OVERVIEW**

EV-SR-HP Series is a PWM charge controller with LCD display. Includes models EV-HP230/EV-HP2440/EV-HP2450/EV-HP2460/EV-HP4830/EV-HP4840. 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	MAX SOLAR INPUT VOLTAGE
EV-HP2430/2440	PWM Controller	30A/40A	12V/24V	< 55V
EV-HP2450/2460	PWM Controller	50A/60A	12V/24V	< 55V
EV-HP4830/4840	PWM Controller	30A/40A	12V/24V/36V/48V	< 110V



**EV-HP Series PWM** 

# Specifications

MODEL#	EV-HP2430/2440		EV-HP2450/2460		EV-HP4830/4840			
Rated Current	30A/40A		50A/60A		30A/40A			
System Voltage	Automatic recogr		nition of 12V/24V		Automatic recognition of 12V/24V/36V/48V			
Rated Power	12V/450W 24V/900W	12V/600 W24V/1200W	12V/750W 24V/1500W	12V/900W 24V/1800W	12V/450W 24V/900W 36V/1350W 48V/1800W	12V/600W 24V/1200W 36V/1800W 48V/2400W		
No-Load Loss	<13mA/12V; <15mA/24V			<30mA				
Max Solar Energy Input Voltage	C34V			C68V				
USB Function	Yes		No		No			
Operating Temperature	-13ºF ~ 131ºF							
IP Protection								
Net Weight	13.75oz		22.9	92oz	22.92oz			
Protection Functions	Battery reverse connection protection, solar panel reverse connection protection, reverse charging protection at night Charging overload protection, overcurrent protection, short circuit protection							
Dimensions	6.45" x 4.07" x 1.85"		7.45" x 5" x 2.12"		7.45" x 5" x 2.12"			
PARAMETERS	I							
Battery Type	Flooded FL	.D \$	Sealed SLD	GEL GEL		Lithium LI		
Overvoltage Protection	16V							
Equalizing Charging Voltage	14.8V		14.6V -		-			
Boost Charging Voltage	bost Charging Voltage 14.6V		14.4V			14.4V		
Floating Charging Voltage	ing Charging Voltage 13.8V		13.8V			-		
Charging Recover Voltage	13.2V							
Over-Discharge Recovery Voltage	12.5V (settable with keys)							
Over-Discharge Voltage	11.0V (settable with keys)							
Equalizing Charging Time	1H -			-		-		
Boost Charging Time				-				
Temperature Compensation		-3	-					
Light Control Voltage	Light control on 5V, light control off 6V (light control on plus 1V)							
Light Control Judgment Time	10 minutes							

# **Product Images**





