

HeliStar battery charger

HeliStar battery charger 12/24/36/48V-60~120Amp MPPT

Optimal Solar MPPT Battery Charge System



Features

- Integrates Maximum Power Point Tracking (MPPT), battery charge management, state of charge information
- Continuous output Power Rating without de-rating at up to 50°C ambient temperature
- Built-in Battery Energy Monitor tracks power production and consumption to calculate the energy remaining in battery state of charge (SOC) is displayed in percent full, Amp-hours, Watt-hours, and 90 days of energy-harvest history is stored in the solar charger
- Supports Flooded Lead Acid (FLA), GEL, and Absorbed Glass Mat (AGM) batteries, Four-stage charging with adjustable set points for all parameters
- Wire the PV modules in series up to 112VDC normal (140VDC Max) (J-80C) and 160VDC normal (200VDC Max) (J-120C)
- Easy stacking of up to 16 units in parallel for high currents
- Precision charging of 12V/ 24V/36V/48V batteries with easy set-up and using voltage sense wires
- Built-in temperature compensation function for safe and complete charging

Specifications

Model No.	J-60C	J-80C	J-100C	J-120C	DC to DC Conversion Capability	12V Battery: 17~102VDC		12V Battery: 17~102VDC	
Maximum output current (Continuous at up 50°C ambient temperature)	60 Amps	80 Amps	100 Amps	120 Amps		24V Battery: 34~160VDC		24V Battery: 34~112VDC	
Battery Voltages	12,24,36,48 VDC Normal					36V Battery: 51~160VDC		36V Battery: 51~112VDC	
Max PV Input Current	50 Amps	70 Amps	90 Amps	110 Amps		48V Battery: 68~160VDC		48V Battery: 68~112VDC	
Input Voltage Range	16~112VDC Operating		16~160VDC Operating		Display Status	LCD status screen displays input Voltage and current, output voltage and current, charge-mode, Battery SOC			
Max PV Array Power	140VDC Maximum Open Circuit Voltage		200VDC Maximum Open Circuit Voltage		Data Logging	Logs energy harvested for 90 days, LCD display WH, KWH, AH			
	12V Battery: 1100W		12V Battery: 1750W		Energy Monitorng	LCD shows SOC, AH, WH, and discharge current. A 50mV/ 500Amp shunt is required to use			
	24V Battery: 2200W		24V Battery: 3500W		Auxiliary Relays	Three independent relays with from A(SPST) contacts for control of external devices			
	36V Battery: 3300W		36V Battery: 5200W		Operation Temperature	Full Power Output to +50°C ambient			
Charge Regulation Modes	Bulk, Absorption, Float, Auto/ Manual Equalization				Standby Power	< 2 Watts			
Battery Temperature Compensation	5.0 mV per°C, per 2 volt cell				Dimensions (L x W x H)	400 x 200 x 90 mm		400 x 251 x 115 mm	
					Weight	6 kgs		10 kgs	