





Solar Charge Controller MPPT Type

Models 12V/24V - 20A & 40A 48V - 20A & 40A

Features:

- | Microprocessor based advanced MPPT product design
- | MPPT charging technology gives up to 25% extra power
- | 16 x 2 LCD display with back light shows detailed information
- | User can adjust battery charging voltage and set max. charging current
- | 4 Stage battery charging Deep discharge, Boost, Absorption, Trickle charge
- | Equalizing charging mode for equalizing 2 or 4 battery banks
- Reverse polarity protection with LED indication For battery and PV Panel both
- | Hybrid functionality option Priority charging of inverter batteries using Solar energy
- | Battery overcharge protection & battery temp. compensated charging
- | Charge controller auto shut-down to prevent battery deep discharging
- | Can even charge battery from deep discharge state
- | Rugged, compact and attractive product design
- 2 Year product warranty







TECHNICAL SPECIFICATIONS

Parameters	MODEL: CC MPPT 1224-20A / 40A	MODEL: CC MPPT 48-20A / 40A
Charge controller type MPPT technology Display Type	Maximum Power Point Tracking (MPPT) charging technology Dual channel interleaved buck-converter 16 x 2 LCD digital display with backlight	
Battery Voltage	12V / 24V (auto-select)	48V
Maximum solar panel voltage Maximum power point (MPP) voltage Buck converter duty cycle range	70 V (150V Optional) Battery voltage to 70V Duty cycle up to ar	100 V (150V Optional) Battery voltage to 77V and including 100%
Charging method Max Charging Current (at 25 °C) Equalizing charging mode	4 stage battery charging - Deep disch 20A / 40A DC @ 12V or 24V	20A / 40A DC @ 48V
Temp. compensated battery charging Product Efficiency (%)	Yes Yes (Built-in ambient temperature sensor & battery temp. sensor accessory) Up to 98.8%	
Load cut-off in low battery condition Battery deep discharge cut-off voltage	10.8 V / 21.6 V 10.5 V / 21 V	43.2 V 42 V
Displayed parameters on LCD	PV voltage, PV current, PV power, Cumulative PV KWHr, Battery voltage, Battery current, Battery charging mode, Night mode, Time since dusk, Load On/Off status, Ambient/Battery temperature, Load current	
Programmable parameters (Using 3 buttons on front panel)	Battery end-of-charge voltage (Range: 13.6V - 14.5V) Battery trickle charge voltage (Range: 13.2V - 14V) Battery equalizing charge voltage (Range: 14V - 14.8V) Maximum battery charging current (Range: 5A - 20A) Load control mode (Always ON, Dusk to Dawn, 2 - 14 hours ON after sunset) Power saver mode / Night light mode (Optional accessory required)	
Optional Accessories	Battery temperature sensor with 2 meters cable Power saver box: For inverters (Mains supply to inverter is cut-off when sufficient solar energy is available. This ensures saving in electricity bills) : Can operate as night light switch to automatically switch On/Off any light or AC load after sun set	
General Specifications Specified Temperature Range Usage Unit Weight Dimensions (H x W x D) Mounting Manufacturing Warranty	0 °C to 45 °C For indoor use only 1.4 kg 190mm x 160mm x 80mm Vertical wall mount - indoor only Two years	

^{*}Technical Specification may change in process of product enhancement

Systellar Innovations