



*Affordable Solar Power*



## TECHNICAL SPECIFICATIONS

Parameters	MODEL: CC MPPT 1224-20A / 40A	MODEL: CC MPPT 48-20A / 40A
Charge controller type	Maximum Power Point Tracking (MPPT) charging technology	
MPPT technology	Dual channel interleaved buck-converter	
Display Type	16 x 2 LCD digital display with backlight	
Battery Voltage	12V / 24V (auto-select)	48V
Maximum solar panel voltage	70 V (150V Optional)	100 V (150V Optional)
Maximum power point (MPP) voltage	Battery voltage to 70V	Battery voltage to 77V
Buck converter duty cycle range	Duty cycle up to and including 100%	
Charging method	4 stage battery charging - Deep discharge/Boost/Absorption/Trickle mode	
Max Charging Current (at 25 °C)	20A / 40A DC @ 12V or 24V	20A / 40A DC @ 48V
Equalizing charging mode	Yes	
Temp. compensated battery charging	Yes (Built-in ambient temperature sensor & battery temp. sensor accessory)	
Product Efficiency (%)	Up to 98.8%	
Load cut-off in low battery condition	10.8 V / 21.6 V	43.2 V
Battery deep discharge cut-off voltage	10.5 V / 21 V	42 V
<b>Displayed parameters on LCD</b>	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	
<b>Programmable parameters</b> <i>(Using 3 buttons on front panel)</i>	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)	
<b>Optional Accessories</b>	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	
<b>General Specifications</b>	Specified Temperature Range: 0 °C to 45 °C Usage: For indoor use only Unit Weight: 1.4 kg Dimensions (H x W x D): 190mm x 160mm x 80mm Mounting: Vertical wall mount - indoor only Manufacturing Warranty: Two years	

\* Technical Specification may change in process of product enhancement

# Systellar Innovations

Shankar Chowk, Delhi Road, Meerut - 250002, U.P.

www.systellar.in | info@systellar.in | Contact: 09568004455, 0121-2400394