

## High Voltage Solar Charge Controller

### CC-MPPT-HV-50A

High Voltage Solar Charge Controller **CC-MPPT-HV-50A** is available in the following two models:

1. CC-MPPT-HV-50A-4872 (For 48 and 72V Battery banks)
2. CC-MPPT-HV-50A-96240 (for 96, 120, 144, 180, 192, 240V battery banks)

Its brief Technical Specifications and Salient Features are described below.

#### Technical specifications

Battery bank voltage	Model	Battery Bank voltage
	CC-MPPT-HV-50A-4872	48V, 72V Auto Select
	CC-MPPT-HV-50A-96240	96V, 120V, 144V, 180V, 192V, 240V Auto Select
Maximum charging current:	50 Ampere	
Maximum solar panel voltage:	750 Volts	
Maximum power point voltage range	(Battery voltage + 5) Volts to 600 Volts	
Maximum allowed solar panel capacity	Battery bank voltage	Solar Panel Capacity
	48V	3300 Wp
	72V	5000 Wp
	96V	6600 Wp
	120V	8000 Wp
	144V	10 KWp
	180V	12.5 KWp
	192V	13 KWp
	240V	16.5 KWp
Idle current from battery	Typ: 50 mA	
Technology	IGBT Buck Converter	
Microcontroller controlled	ARM based 32 bit advance microcontroller	
Size	550 mm (H) x 440mm (W) x 330mm (D)	
Weight	35 Kg	

#### Salient Features:

Load output	A separate load output is provided where DC load (Typically inverter) up to 70A can be connected.
Battery charge current limit	In case the inverter is drawing current, CC-MPPT-HV-50A is capable of supplying full 50 Amp charging current. However, in case inverter is not drawing any current, the charging current to the battery can be limited to 15 or 20A (User programmable)
Power Saver relay drive output	For driving a 12V relay of the Power Saver Accessory
Fault indication relay	Potential free N/O and N/C contacts for connecting to an external alarm
User programmable charging parameters	A whole range of charging and other operational parameters can be programmed by the user using the front panel keyboard and the display

Last 365 days data log	The unit stores a variety of parameters for last 365 days operation. The data log can be viewed on the display or can be sent to a computer for storage in a file and further analysis.
Display:	24 char x 8 lines backlight LCD display
Keys	5 Keys (ESC, INCR, DECR, NEXT, SEL) are provided on the front panel to view / program various parameters
Protections:	Fuse protection (100A HRC fuse) on battery connection
	Reverse PV connections
	Reverse Battery Connection (Beeper)
Battery soft connect switch	A switch is provided which eliminates any sparking while connecting battery fuse
4 stage charging for maximum battery care:	Bulk mode charging,
	Absorption mode charging,
	Trickle mode charging,
	Equalizing Charging Equalizing charging mode interval is site programmable to periodically equalizes charge in all batteries in the battery bank
Temperature compensation of all charging voltages	A battery temperature sensor is supplied as standard accessory
Serial RS-485 port	For transfer of data log to PC, future use
Optional accessories:	
	1 Power saver relay (4KVA or 15 KVA Inverter) with control cable
	2 RS485 to RS232 converter for transfer of data log to a PC

\* For continuous product improvement, product specifications can change without notice

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