

# MPPT SOLAR CHARGE CONTROLLER

5KW - 200KW



Convert\* existing Online UPS  
Offline UPS/Inverter to a  
Solar based system

- DSP based technology, Intelligent MPPT tracking
- Rugged, high reliability - long life design using IGBT
- High convertor efficiency (>96%)
- Computer interface via RS-232/RJ45 allow to monitor and store solar data application
- 35% extra battery life using temperature compensated float-cum-boost battery charger

\* Depending on need the solar wattage can be upgraded in phases, initially the solar module can be selected only to charge the batteries to provide backup during power failure, gradually the capacity of panels can be upgraded to cater the entire load.

Compliance certified as per IEC 62509:2010 by NABL certified lab.

Intelligent transfer switch automatically transfer the load between solar and grid and ensures maximum utilization of solar power.



- Deep discharge protection by adjusting the DOD level setting >>> Ensures battery charge level reaches 100%
- Day time battery discharge protections for night operated load >>> Ensures 100% battery charge for night-discharge
- User friendly LCD display energy meter to read solar power, energy in units (kWh), various status and parameters of the charge controller >>> Facilitates the efficiency evaluation of the solar installation



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<b>CAPACITY</b>	<b>5KW - 200KW</b>
TECHNOLOGY	DSP based MPPT converter
DC BUS	48 VDC-360 VDC

**SOLAR**

Maximum open circuit array voltage	100 V-410 V
Operating MPPT voltage	75-330 V
Reverse polarity protection	Short circuit diode
Back feed protection	Protected using reverse diode
MPPT efficiency	96% (Peak)

**INDICATIONS**

- loads on Grid
- Solar ON
- Loads on Mains
- Charger Boost / Float

**PROTECTIONS**

- Linear current limiting, under voltage trip
- Solar under voltage / over voltage Cut off
- Battery reverse Polarity Protection
- High speed pulse by pulse Current Limit Using electronic protection Circuit
- Solar back feed Protection
- Battery over charge Cut off and Deep discharge Protection

**MULTIFUNCTIONAL SOLAR LCD ENERGY METER**

- Solar Voltage
- Solar Current
- Solar Power
- Solar energy generated in units (Kwh)
- Battery Voltage
- Battery Current
- Solar ON/OFF Status
- Load On Inverter / Grid Status
- Temperature
- Battery Charging / Discharging Status

Intelligent DOD Based Load Transfer Switch to Transfer The Load Between Solar & Grid

Day time battery discharge protection for Night operated load

**BATTERY**

Battery Type	SMF / Tubular
Solar Mode Charging Current	Up to 550 A
Float mode charging voltage @25°C	13.5V / Battery
Boost mode charging voltage @25°C	14.2V / Battery
Battery DOD setting	Settable (10% to 90%)
Charger Type	Float Cum Boost
Temperature Compensation	5mV / Cell / °C Variation (5°C-45°C)
Increase in life of the battery using above Mentioned charging method	30-35%

**ENVIRONMENTAL**

Acoustic Noise level	<60db @ 1.5 meter
Operating Ambient Temperature	0 to 40°C
Storage Temperature	-10 to 70°C
Humidity	Up to 95% RH Non condensing
Altitude	<3000 Feet above sea level (without derating)

**PHYSICAL**

Enclosure Protection	IP-20
Cooling	Forced Air
Cable Entry	Rear side
Software interface	PC / Network interface and mobile phone interface
Testing Standard	As per IEC 62509

\*Specifications are indicative to our standard models subject to change without notice.

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