

# TECHNICAL SPECIFICATIONS

<b>CAPACITY</b>	<b>5 KW - 100 KW</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 undervoltage / overvoltage 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 275 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.

