

|                 |                          |
|-----------------|--------------------------|
| <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 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 275A                           |
| Float mode charging voltage @25°C                                     | 13.5V / Battery                      |
| Boost mode charging voltage @25°C                                     | 14.2V / Battery                      |
| Battery DOD setting                                                   | Settable(10%to90%)                   |
| 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.