FEATURES

- Digital display with fault & energy logging.
- Remote monitoring over internet & RS 485.
- 3 stage battery charging.
- 30% Extra Utilization of Solar
- Excellent performance upto 50° of temperature.

APPLICATION

- Home Appliances
- Farm House
- Hospital
- Safari
- Irrigation
### Capacity (KVA)

<table>
<thead>
<tr>
<th>Capacity (KVA)</th>
<th>1KVA</th>
<th>1KVA</th>
<th>2KVA</th>
<th>3KVA</th>
<th>4KVA</th>
<th>5KVA</th>
<th>6KVA</th>
<th>7.5KVA</th>
<th>10KVA</th>
<th>15KVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (VDC)</td>
<td>24V</td>
<td>48V</td>
<td>48V</td>
<td>48V</td>
<td>48V</td>
<td>48V</td>
<td>96V</td>
<td>96V</td>
<td>120V</td>
<td>120V</td>
</tr>
</tbody>
</table>

### Solar Photovoltaic Input

<table>
<thead>
<tr>
<th>Charge Controller Type</th>
<th>MPPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum PV Power</td>
<td>1kwp</td>
</tr>
<tr>
<td>Input Voltage Range</td>
<td>30-57V</td>
</tr>
<tr>
<td>Max. PV Voltage</td>
<td>72V</td>
</tr>
<tr>
<td>Max PV Charging</td>
<td>26A</td>
</tr>
<tr>
<td>MPPT Efficiency</td>
<td>&gt;92%</td>
</tr>
</tbody>
</table>

### Grid Input

| Operating Voltage range | 170-270V AC, 1PH, 50Hz |

### Inverter Output

| Nominal O/P               | 230V ± 2% |
| Mode                      | 50 ± 0.5Hz |
| No Load Current           | <10% of Full Load Current |
| THD                       | <5% |
| Maximum O/P Current       | 3.5Amps | 3.5Amps | 7Amps | 10.5Amps | 13.9Amps | 17.5Amps | 17.5Amps | 20.8Amps | 26.0Amps | 35Amps | 52Amps |
| DC-AC Efficiency          | >85%    | >87%    | >88%   | >90%    |

### Battery

- Battery Charging Through Mains: Mains Charging Yellow LED Blinking
- Battery Charging Through Solar: MPPT Charging Yellow LED Blinking
- Battery Charging Through Mains + Solar: MPPT Charging and Mains Charging Both LED Blinking
- Low Battery Indication: Red LED
- Solar Optimization after Battery Full Charged: MPPT Charging Yellow LED Blinking

### Protections

- Over Load: >110 - 125% For 60 Sec, >125-150% For 30 Sec, >150 - Immediate Trip
- Over Load Indication: Provided
- Switch Gears: Battery-MCB, PV-MCB, Mains-MCB, Load-MCB
- Surge Protection: MOV at all input/output Feeder
- Short Circuit Indication: Provided
- Battery & PV Reverse Polarity: Provided
- Battery Over Voltage: Provided
- Mains Under/Over Voltage: Provided

### Indication

- Power On: Green LED
- Inverter On: Yellow LED
- PV On: Green LED
- MPPT Charging: Yellow LED
- Grid On / Grid Charging: Yellow LED
- Fault: Red LED
- Display: Battery Voltage, Battery Amp, PV Velt, PV Amp, Inverter Voltage, Inverter Voltage, Inverter Amp, Inverter KVA, Inverter Frequency, PV KW, PV KWH, Mains Voltage, Mains Amp. 30 days data Logging

### General

- Net Weight (KG): 30.0KG, 32.0KG, 35.1KG, 40.2KG, 46.8KG, 46.8KG, 48.0KG, 50.0KG, 55.0KG, 80.0KG, 89.0KG, 110.0KG
- Gross Weight (KG): 31.0KG, 33.0KG, 36.6KG, 42.7KG, 49.8KG, 49.8KG, 51.0KG, 54.0KG, 51.0KG, 100.0KG, 103.0KG, 120.0KG
- Dimensions (MM): 359x280x530MM, 359x280x560MM, 359x280x600MM, 478x375x725MM
- Communication: RS 232 Standard, GPRS: Optional
- Standby Power: <50W
- Operating Temp. range: (0°C to 55°C)
- Storage Temp.: (0°C to 60°C)