**Overview**

Indigenously developed highly functional Inverter used to convert the DC Power produced from Solar PV panels to AC, suitable for exporting to grid.

**Features**

* Simple & Effective Installation and Operation procedure
* Streamlined, Compact and Rugged design
* Optimized Energy Harvest with Intelligent MPPT algorithm
* IP65 compatible Enclosure
* Web based software for remote monitoring and data analysis
* GPRS/Wi-Fi/Ethernet communication

**Technical Specifications of 5KW Grid Tied Inverter**

|  |  |  |  |
| --- | --- | --- | --- |
| C:\Users\Aamani\Downloads\4-CommunicationPort.png | Communication Ports | Ports & Wireless | RS 485, Wi-Fi, GPRS |
| C:\Users\Aamani\Downloads\Input.png | DC Input (from array) | Max. Input Power | 5500W |
| Max. DC Voltage | 800V |
| MPPT Voltage Range | 350 – 800V |
| Max. Input Current | 12A |
| C:\Users\Aamani\Downloads\Output.png | Output | AC Nominal Power | 5 KVA |
| Nominal AC Voltage | 400 VAC, 3 Phase |
| Nominal AC Current | 8A |
| AC Voltage Range | 360 to 470V |
| AC Frequency Range | 47 to 53 Hz |
| Max. Power Factor | +/- 0.9 |
| Efficiency | > 97% |
| Max. THD | < 3% |
| Power consumption during night | < 5 Watt |
| C:\Users\Aamani\Downloads\8-Optional.png | Other Specifications | Display | Multi-function LCD |
| Enclosure Protection | IP 65 |
| Type of cooling | Natural |
| Enclosure material | Steel / Aluminium |
| Protections | Anti-Islanding, GFCI, Overload, alarms provided for all important protections |
| Certifications | IEC 62109  IEC 61683  IEC 60068-2  IEC 62116 IEC 61000 |
| C:\Users\Aamani\Downloads\10-Operating.png | Environment | Operating Temperature | 0°C to +50°C |
| Storage Temperature | -10°C to 60°C |
| Humidity | 0 – 95% RH (Non-condensing) |
| Acoustic Noise (at 1 metre) | < 55 dB |
| Altitude | < 1000m, above sea level without derating |