



TATA BP SOLAR INDIA LIMITED PRODUCT SPECIFICATION

ECOGENIE – 1000VA Solar Power Generating System



SYSTEM DETAILS:

- ◆ 1000VA rated Inverter unit with inbuilt mains charger and change over switch
- ◆ Solar charge controller to handle up to 320Wp of array
- ◆ **Solar Array :**
160Wp – 2nos of TBP1280 Solar modules or single 160Wp module
- ◆ **Battery Bank:**
24V-75Ah@C10
Tubular Plate Lead Acid Batteries
- ◆ Suitable interconnecting Cables and accessories

◆ INVERTER SPECIFICATIONS

Inverter Wave shape	True Sinewave Inverter
Output power capacity	1000 VA (660W)
Nominal output voltage	230 V
Output Connections	Mating IEC Connector provided to take the Load wiring from it
Mains Nominal input voltage	230 V
Input frequency	50 Hz +/- 3 Hz
Mains Auto Change over	Within 0.2Sec Mains to inverter or vice versa
Input Connection Type	Hard Wire 3-wire

Control panel

- Indications
 - On Mains
 - On Battery
 - Horizontal Load Bar graph in the inverter mode till over load
 - Fault
 - Inverter disable in away mode
- Keep the switch in away mode when inverter is not in use to save power**



TATA BP SOLAR INDIA LIMITED PRODUCT SPECIFICATION

ECOGENIE – 1000VA Solar Power Generating System

Surge energy rating	140 Joules
Operating Environment	0 - 45 °C
Operating Relative Humidity	0 - 95 %
Storage Temperature	-20 - 50 °C

◆ **MAINS CHARGER**

Inbuilt with inverter, Typical charging current : 7.5A

◆ **SOLAR CHARGE CONTROLLER**

Maximum peak charging current : 24V, 10A (Up to 320Wp Array)

◆ **Cables Supplied:**

Set of cables to connect the solar array, battery and mains input / load output IEC connectors are supplied. The load wiring and mains input wiring is not under scope of supply.

◆ **Module Mounting Structure:**

MS hot dip galvanised, Suitable for mounting on Roof top / ground
Tilt angle Adjustable from 0-45 degrees

◆ **Typical Loads suitable for Usage:**

- Incandescent Bulbs
- Fluorescent Lamps
- CFLs
- Television – Colour or B&W
- Computer
- Table/Ceiling fan
- For any other load check and confirm TATA BP Solar before connection

◆ **System Backup:**

- 4 Hrs with 200W combination of above loads in AC Hybrid mode operation
- 2 Hrs with 200W combination of above loads in Solar Standalone mode of operation

Note:

- Loads are not included in supply and does not cover under warranty