

Typical Loads

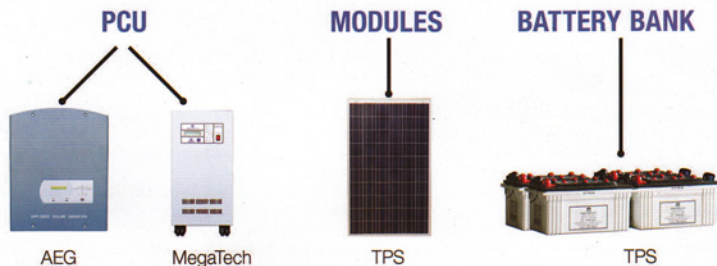
- Incandescent Bulbs
- Fluorescent Lamps
- CFLs
- Television – Colour or B&W
- Computer
- Table/Ceiling fan
- For any other load check and confirm with TATA Power Solar before connection

System BackUp

- 3000Whr per day typical under 5KWhr sunshine per day
- 5 Hrs with 600W combination of above loads in Solar Standalone mode of operation
- 10 Hrs with 600W combination of above loads in AC Hybrid mode operation

NOTE:

Loads are not included in supply and are not covered under warranty



22+

years of domain
experience

30+

authorized
service stations

700+

work force

1000+

dealers, sub-dealers and
installer network

17+

million lives
touched

FOR SYSTEM BOOKING AND DETAILS CONTACT: 9020171701 (24 Hours) | 9020171702/03/04 (8AM - 8PM)

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Authorized Dealer

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Technical Data & Specifications Manual

1 KWp Solar Power Pack from Tata Power Solar

Solar System is intended to be used as standalone solar system and change over manually to the grid if battery goes low. Separate Change over switch is supplied as part of distribution board to change over from solar inverter to grid and vice versa.

System Details

- Solar Array of 1000Wp minimum: 250Wp x 4 nos of solar panels
- Designed to operate as a standalone solar system feeding upto 1KW of load giving backup up to 3000 Whr per day from solar.
- PCU of 1000VA rated Inverter unit with inbuilt MPPT Solar charge controller to handle up to 1200Wp of solar array
- Battery Bank: 24V-150Ah@C10 x 4nos
Tubular Plate Lead Acid Batteries
One day autonomy (Total Battery backup of 7200Whr)
- Galvanized steel Module Mounting structure for flat roof as standard and option of mounting for Tiled or Tinned roof or customized mounting solutions available
- Elegant and Innovative Integrated Distribution board for interconnection of DC power from Solar and Battery, AC distribution with built in change over switch to connect system to the load or grid if the battery goes low
- Suitable interconnecting Cables and accessories

Solar Module

- 250Wp x 4 nos Solar Modules (Make - Tata Power Solar)
- Mono / Multi Crystalline module
- Module Power Warranty for 25 years
- Certified IEC61215 for Design qualification and type approval
- Certified IEC61730 for safety qualification
- Certified IEC61701 for coastal region application
- TPS5200 for Quality Assurance
- TPS6000 for Quality and Reliability of Solar Module

Battery

- 12V150Ah at C10 x 4nos Batteries (Make - Tata Power Solar)
- Solar Low Maintenance flooded Tubular Plate Lead acid Battery
- Once in 6 months top-up
- IS13369 Tested and certified

Module Mounting Structure

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

Inverter Specifications

- Make - AEG / Megatech (ANERT Specified Models)
- Pure Sine wave Inverter
- Output power capacity: 1000VA
- Nominal output voltage : 230 V + 2%
- DC Voltage : 24V (Wall mount) or 48V (Ground mount)
- Efficiency: 85% at full load and 75% at half load
- Microcontroller based design
- Built in Protection against – over load, short circuit, over voltage, under voltage
- Sleep mode provided to reduce no load power consumption of solar power!
- Multi-function LCD meter along with LED indications provided for system performance information
- Ambient temperature: 0 to 50°C
- Relative humidity: 90% non-condensing
- Certification: IEC 61683 / IS 61683 for efficiency measurements and IEC 60068-2 (1, 2, 14, 30) for Environmental Testing

Solar Charge Controller

- Built inside PCU
- MPPT based solar charge controller to handle upto 1200Wp Array
- 3 stage Charge control for charging the battery to highest level of SoC
- Reverse flow protection from battery through Solar Array
- Grid charger built inside the PCU but not connected as per Anert system configuration.

Cables Supplied

- Set of cables to connect the solar array, battery and to load output upto the distribution board are supplied.
- The load wiring and mains grid input wiring upto the changeover switch integrated into distribution board is not under scope of supply.
- AC Cables - 3C X 2.5SQ MM CABLE – 10 metres
- DC Cables - 2C X 4SQ MM CABLE - 10 metres