



Tesca Solar Energy offers a range of pre-configured solar power packs which include solar panels, PCU, Charge controller and accessories which are installed by dealers. Solar power packs are easy to use and eliminate the need for extensive configuration as they have been put together after extensive research by our R&D team for the maximum efficiency. Tesca Solar Energy power pack is a solar cum mains hybrid inverter with solar charging priority to power domestic appliances like CFLs / Tubes, Fans, T.V., Computer etc. The unit consists of solar panel, batteries, & solar /Mains charge controller cum inverter with logic circuit.

SYSTEM DESCRIPTION

Solar Photovoltaic Modules:

A solar photovoltaic module is the basic element of each photovoltaic system. It consists of number of solar cells arranged and connected in a definite pattern. It converts solar energy into electrical energy when sunlight falls on its surface.

Solar Inverter Cum Charge Controller With Intelligent Logic Control:

Solar Inverter converts DC (Direct current) power from the battery to AC (Alternating current) power compatible with the utility and AC loads. This unit consists of Solar Inverter cum Charge Controller with Intelligent Logic which controls the charging of battery from solar or mains with solar as priority.

This system monitors the Battery charge status and accordingly decides to charge the battery either from solar or from mains. First priority of charging is from solar modules and only in the absence of solar power (no-sunshine time) and when battery voltage is low (a predetermined level), the mains charger is turned ON automatically. This maintains the battery on float.

When battery bank reaches a preset low voltage, mains charger turns "ON" and charges the battery bank. Next day, when solar radiation is available, the cycle repeats. This ensures healthiness of battery and hence the life of the battery gets extended. Battery deep discharge, over charge protections are incorporated inside the Solar Inverter.

BATTERY

A device that converts the chemical energy contained in its active materials directly into electrical energy by means of an electrochemical reaction. Low maintenance, tubular type batteries are provided with this system.

MODELS AVAILABLE

500Watt, 1KW, 2KW, 3KW, 5KW, 10KW

FEATURES

- System designed for optimum performance.
- Fully automated operation.
- Add-on solar charging system available if home inverter is already installed - increase back-up time and save on power bills.

TECHNICAL SPECIFICATIONS

SN.	Order Code	Module	PCU	Battery Size	Max Load	Backup Time
1.	26041A	500W	24V 850VA	100AH x 02	400W	06Hours
2.	26041B	1000W or 01KWp	48V 01KVA	100AH x 04	800W	06Hours
3.	26041C	2000W or 02KWp	48V 02KVA	150AH x 04	1500W	06Hours
4.	26041D	3000W or 03KWp	48V 03KVA	150AH x 03	2300W	06Hours
5.	26041E	5000W or 05KWp	96V 05KVA	150AH x 08	4000W	06Hours
7.	26041F	10000W or 10KWp	180V 10KVA	150AH x 15	8000W	06Hours

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in