

Stellar Green Energy Solutions

Solar IPS- Data Sheet

SOLAR IPS (PWM) CHARGER

The Intelligent Power Selector (IPS) converts any conventional Inverter into a Solar Inverter. With IPS Product Series we are targeting large customer base of existing installed home UPS & Inverters to convert them to Solar Inverter. Our IPS solution will assist in reducing electricity bills & ensure a dependable backup system, contribute proudly to clean environment. The product can be customized for many other applications beyond the Inverter. It is also a self-sufficient solar DC power system.

By adding IPS to your normal inverter, you will get all the features of our smart solar inverter in your converted inverter system which can be used in home and street lighting applications.

It provides the facility to charge the battery bank either through Solar or Grid(Priority will be to Solar) The IPS continuously monitors the state of Battery Voltage, Solar Power output and the loads. When the Batteries are charged above a preset level, the Grid power supply to the IPS automatically cuts off from the system, in the presence of solar. The IPS is designed to give priority to solar power first and use Grid power only when the solar power / Battery charge is insufficient to meet the load requirement. It switches to Grid charging automatically Due to sustained usage of power, when the Battery Voltage falls below a preset level, the IPS transfers the load automatically to the Grid power and also charges the Batteries through the Inverter in-built Solar / Grid Charger.

The Salient Features Include:

- **Maximization of Solar Energy Harvest**
- **Higher Power Conversion Efficiency**
- **Universal Inverter / UPS compatibility**
- **Affordable Roof top solar system solutions**
- **Lower Electricity Bills**
- **Dependable backup system**
- **Integrated high efficiency solar charge controllers**
- **These can be used in wide-ranging applications in solar systems such as Industrial Power plants, Rooftop Solar**
- **Banking power, Water pumps or simply home & office UPS systems.**

SOLAR IPS (PWM) CHARGER

FEATURES

- Live usage when battery is fully charged from sunlight.
- Smart backup of 3-5 hours from battery, when power is not available
- Fully automatic operations.
- Long life (Life of solar panels are more than 25 years)
- Display as well as LED to indicators to observe the working status, Solar Power generation (in watts), operations modes etc.
- Maximum usage of solar power.
- Effective Power Management.
- Two Ways of Power Selection
 - a) Automatic Power Selection (Mains or Solar)
 - b) Manual Power Selection (For Mains Power)

THE INTELLIGENT POWER SELECTOR MODELS

Product	Battery Voltage (V)	Solar Charging Current (I)	Max Voc per PV Input (V)	Max Input Wp per input (WP)
IPS1220	12.00	20.00	30.00	300
IPS1240	12.00	40.00	30.00	600
IPS2420	24.00	20.00	50.00	500
IPS2440	24.00	40.00	50.00	1000
IPS3620	36.00	20.00	70.00	800
IPS3640	36.00	40.00	70.00	1000
IPS4820	48.00	20.00	100.00	1000
IP4840	48.00	40.00	100.00	2000
IPS4860	48.00	60.00	110.00	3000
IPS9620	96.00	20.00	200.00	2000
IPS9640	96.00	40.00	200.00	4000
IPS12040	120.00	40.00	200.00	5000