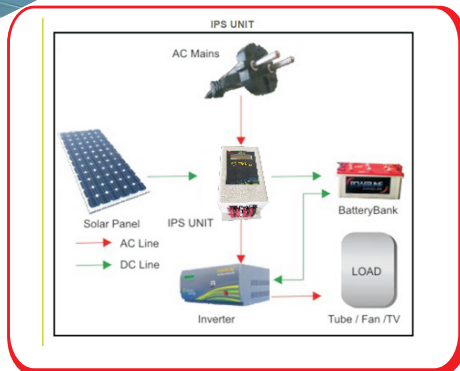


**MPPT IPS**



High efficiency, high reliability MPPT IPS provides solar capability to the existing inverters. During solar availability the system disconnects the mains supply to the inverter which in turn puts the load on batteries; simultaneously the IPS starts to charge the batteries, thus saving electricity.

When the batteries reach 50% DOD, the IPS reconnects the mains supply, transferring the load to the mains and the IPS starts charging the batteries again.

The mains disconnect and reconnect points are settable as per user requirement.

- Tracks the maximum power point for solar Energy utilization. The Solar energy is transferred by an SMPS converter & is tuned to get Max possible power transferred to the battery.
- Auto detects the inverters running on 12 V or 24 v batteries and adjusts the current from the solar panels accordingly.
- SBM (Smart Battery Management) system provides higher degree of battery protection and life.
- A five stage battery charger for lower gassing and faster Charging. Assures improved battery life.
- (b) Battery Status
- (c) PV Voltage
- (d) PV Current
- (e) KWHD (Kilo watt hour in a day)
- (f) KWH in a month
- (g) Battery Voltage
- (h) Battery Current
- (i) Mains status (Whether the SMU has disconnected the mains supply and running the inverter on battery mode and battery charging is supported by solar panels.

- Smart SMU, the system can be interfaced to a smart inverter to maximize the solar energy utilization.

**MPPT IPS**



Model	12/24, 30 A	24 V 50 A	48 V 30 A
Max PV	Up to 400 watt for 12 V and 800 Watts for 24 V	Upto 1600 W	Upto 1600 W
Max Voc	45 V	45 V	100 V
Protections	Over charge, SPV reverse, Over Temperature.	Over charge, SPV reverse, Over Temperature.	Over charge, SPV reverse Over Temperature.
Suitable Batteries	Flat plate, Tubular, GEL, AGM, Li Ion chemistries,Factory settable	Flat plate, Tubular, GEL, AGM, Li Ion chemistries,Factory settable	Flat plate, Tubular, GEL, AGM, Li Ion chemistries,Factory settable
Battery Voltage selection Mode	Auto Detect	Fixed	Fixed
Mains disconnect Voltage	Factory settable	Factory settable	Factory settable
Mains reconnect Voltage	Factory settable	Factory settable	Factory settable
Max charging current Limit	Factory settable	Factory settable	Factory settable
Efficiency	Max efficiency is 95%, Varies as per the solar output voltage	Max efficiency is 95%, Varies as per the solar output voltage	Max efficiency is 95%, Varies as per the solar output voltage

Protect Solar Charge Controller from direct Sunlight & Water.

Panel open circuit voltage should not to do be more than specified voltage

\*Specification are subject to change without prior notice due to constant improvement in design & technology.

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