



caring future



In Built **MPPT** & **DATA** acquisition

Solar Power Conditioning Unit



ISO 9001 : 2008
ISO 14001:2004
IEC 61683 & 60068
CERTIFIED



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Solar Power House

G. P. Tronics, in the field of Power Electronics since 1978, introduces Solar Power House (SPH) a conceptual product to meet clean energy demand of future at an affordable price. New concept of free energy harnessing, re-use and re-invest from saving make the concept viable to build up your own Green Power House.

SPH Series "DIGITAL VERSION" with multi features perform all the functions of Solar Inverter, UPS with inbuilt Mains & Solar Charge Controller.

Multifunction capability supports any type of critical and non-critical appliances, gadgets and equipments within its capacity without affecting equipment performance capability.

Unique Features

- ✦ Automatic battery charging from Solar PV on priority, with manual option to charge from mains in case of emergency requirement.
- ✦ Wide range of mains I/P voltage also ensuring minimum discharge of battery enhancing service life.
- ✦ Automatic mains I/P voltage with proper filtering delivers regulated clean out put power and low & high voltage disconnection ensures safe operation of all appliances used.
- ✦ Inverter mode operation is able to accept up to 125% overload without disconnecting but with an audible alarm indication to disconnect extra load for uninterrupted operation.
- ✦ High temperature protection with a display.
- ✦ State of art microcontroller design with LCD display indicates different operating parameters of the system including various protections for safe operation.
- ✦ System self diagnostic check and soft start command.
- ✦ MPPT.
- ✦ Data acquisition and transfer.

Low load standby power consumption and high efficiency achieved through system design and use of special components make the system ideal for SOLAR POWER application.

Various other protections ensure system reliability for longer life.

Pioneer in Indian Inverter Industry
introduces another innovative product with no match

DESIGN BENEFIT

- ✦ Green Power Generation from Solar.
- ✦ Maximum power harnessing for battery charging through MPPT.
- ✦ Save & re-invest for independent "POWER HOUSE".
- ✦ Pure sine wave, precision O/P voltage, low THD ensures zero humming with fan/light - resulting longer life.
- ✦ Microcontroller base PWM Technology in inverter/Charger.
- ✦ Robotic test feature.
- ✦ LCD display & Mimic Panel for Real-time information with membrane switch embedded state-of-art design.
- ✦ Un-interrupted power.
- ✦ Universal end use within capacity.
- ✦ Data acquisition and transfer.

TECHNICAL SPECIFICATIONS

Capacity : 0.6 to 10 KVA

Battery Volt : 12 / 24 / 48 / 96 / 120 VDC Solar Inverter

Inv. O/P Volt : 230V±3%

Frequency : 50Hz±0.1%

Main I/P Volt : 135V - 270VAC

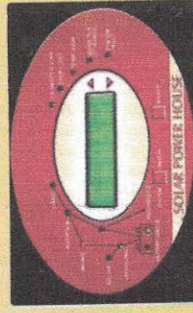
Solar Charger : 10A - 100A (factory settable)

Mains : 6A/10A

Mode : Boost & Float

Peak Efficiency : >91% at nominal bty. volt at 25 deg.C

Protections : O/P short cct., over load, Mains out of range, bty. over / under voltage, bty. reverse, PV reverse, bty. & PV termination reverse, inv. over temperature, system fault.



G P Tronics
Trusted Reliability
Since 1978