

# GENERATE POWER FROM SOLAR ENERGY



## SOLAR PCU PWM

Models: Solar PCU PWM 2550/24V  
Solar PCU PWM 4050/48V

**Pure Sinewave Solar PCU PWM are based on DSP technology.**

- ▶▶ State of the art Pure Sinewave technology.
- ▶▶ Smart Real Time Clock solar selection to maximise money saving
- ▶▶ User Friendly solar selection switch to save power.
- ▶▶ Battery charges even at 90V low voltage.
- ▶▶ Smart LCD displays total solar energy generation (in KWH).
- ▶▶ Battery Types support : Tubular, SMF, Flat Plate.
- ▶▶ Remote monitoring thru Wi-Fi /LAN/GPRS (optional feature).

# SOLAR PCU PWM

## TECHNICAL SPECIFICATIONS

MODEL SOLAR PCU PWM	2550/24V	4050/48V
PV Controller Topology	PWM	
Rated Capacity	2.2KVA	3.5KVA
Battery Nominal Voltage	24V	48V
Grid Input Voltage Range	Normal Mode: 90V±5V~290V±5V UPS Mode: 180V±5V~265V±5V	
Maximum Solar Input Power (W)	1800W	3600W
Maximum Solar Input Voltage (Voc)	49	98
Solar Charge Controller	50A	
No. of Output Phase	1 Phase	
Inverter Output voltage at Nominal DC	230V±3%	
Output Frequency	50Hz±0.1Hz	
THD	≤ 3% (at Linear Load)	
Output Waveform on UPS mode	Pure Sinewave	
Battery Charging Current: Mains	Constant Charging approx 10% of the Rated Battery Current in AH	
UPS Transfer Time	<b>Normal Mode:</b> Mains to Back-up <40mSec Back-up to Mains <15mSec <b>UPS Mode:</b> Mains to Back-up <12mSec Back-up to Mains <10mSec	
UPS Overload / Short Circuit Protections	Available	
Reverse Panel Protection	Available	
Thermal Protection	Both in Grid Charging & Backup Mode	
DC Input Volt. High Cut Protection/Recover	Available	
Most advanced Real Time Clock technology	RTC ensures optimum Saving of Solar Energy	
Operating Temperature	0~45°C	
Weight (Kgs.)	Net: 16.960 / Gross: 18.300	Net: 28.970 / Gross: 31.300
Dimensions (LxWxH) in mm	405x370x260	400x380x465

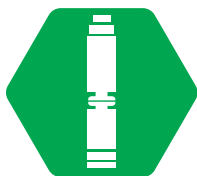
NOTE: Because of a policy of continuous product improvement, the specifications are subject to change without notice.

### BOTH MODELS HAVE HIGH SURGE CURRENT HANDLING CAPABILITY-

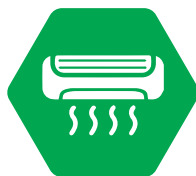
Solar PCU 2550/24V can run 1HP Submersible Pump alongwith other loads.

Solar PCU 4050/48V can run 1.5HP Submersible Pump / 1.5Ton AC alongwith other loads.

**OTHER APPLICATIONS:** Office, Home, Shops, Schools, Colleges, Hospitals, Clinics, Institutions, Air-Conditioner, Submersible Pump, Lights, Fans, Home Appliances, Dental Chair and Photocopier



Submersible Pump



Air-Conditioner



Dental Chair



Lights/Fans



Photocopier

