

SOLAR SW PCU (PWM) SMALL CAPACITY

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SPEARHEADING

SOLAR TECHNOLOGY REVOLUTION



AFFORDABLE

CREDIBLE

RELIABLE

**ENVIRONMENT
FRIENDLY**



PCU is an intelligent solar inverter with grid connectivity and battery backup. It works with priority to solar/ battery/ grid power. This PCU will provide full power from solar panels and will charge battery simultaneously keeping the grid off. In case of unavailability/ partial availability of solar power it will transfer full/partial load to the batteries. If the battery voltage goes below a set level, the PCU will automatically transfer the load to the grid/ DG power and charges simultaneously. Once the batteries are charged to the present level, the PCU will switch off the Grid / DG Power from the system and restores it to solar panels. The PCU automatically switches to hybrid (current sharing) mode if the solar power is low compared to the load requirement.

SOLAR SOLUTIONS • POWER PRODUCTS • LED LIGHTINGS • HOME APPLIANCES

énergie Pure Sine Wave Solar PCU

TECHNICAL SPECIFICATIONS*

Parameter↓ Model→	TPSPSW..PL- 10501220	12501220	16502420	25002420
Capacity	900VA	1000VA	1500VA	2000VA
I/P Range (Normal Mode)	100V-290V ±10V			
I/P Range (UPS Mode)	180V-265V ±5V			
O/P Voltage Battery Mode	220V ±5%			
O/P Frequency Battery Mode	50Hz ± 0.2Hz			
O/P Waveform Battery Mode	Pure Sine Wave			
Low Battery Alarm	10.8V ±0.2V		21.6V ±0.4V	
Low Battery Shutdown	10.5V ±0.2V		21.0V ±0.4V	
Running Load	60A±2A	73A±2A	50A±2A	73A±2A
DC Voltage	12V		24V	
Overload	62A±2A	75A±2A	52A±2A	75A±2A
Charging Current	10A±1A		10A±1A	
Charging Cut off.	14.4V±13.7V		28.8V±27.4V	
No Load Current	<2.5A			
Efficiency	>85%			
Battery Recommended Capacity	100Ah-250Ah			
Solar Charge Controller type	PWM base with zero drop			

* Specifications may change due to continuous R&D

LOAD CHART

Application	600VA		700VA		900VA		1100VA		1500VA		2000VA	
	A	B	A	B	A	B	A	B	A	B	A	B
Fan	3	3	4	3	4	1	2	6	3	8	2	12
Tubelight	3	2	3	3	4	1	2	4	3	8	2	10
TV	1	-	1	-	-	1	1	-	1	2	1	2
Computer		1	-	1	1	-	-	1	-	1	-	1
CFL	2	-	2	2	4	2	2	4	1	4	-	4
Monoblock 5hp					-	1	1	-	1	-	-	-
Submersible Pump 1hp					-	-	-	-	-	-	1	-

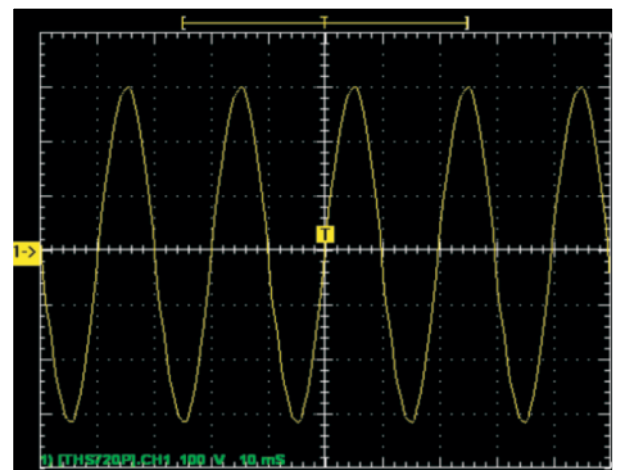
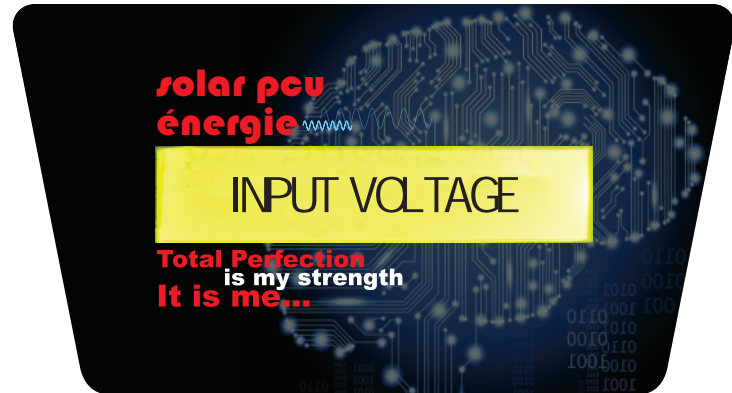
Note : • The above load chart calculations are indicative values only and depends upon manufacturer specification.

- Tubelight-40W, CFL-15W, 19-21" TV, 14" TFT Monitor.
- 48mm ceiling fan (3 blades 1000-1200mm sweep).
- When PC is running TV is not recommended.

SALIENT FEATURES

- High End DSP/ Micro Controller based Smart Control Design operates on high frequency - it increases the performance and system works smoothly without any irritating noise.
- Pure Sine Wave output even at 10.5V DC that improves the life of appliances connected on the UPS.
- Complete Automatic and High Charging Selection Technology that selects the charging profile according to power cut and battery health conditions
- Fast Charging - charging current highest in industry.
- Charging starts from 100V AC-Best suited for rural applications where input voltage remains low (below 160V AC)
- GPM Technology-Enhance battery life due to GPM Technology
- Smart Overload, Short Circuit & Low Battery Protection with Intelligent Multi Stage Control Programming - Improves the reliability of the product

- Instantaneous Reverse Phase Protection - That increases the reliability of the Inverter.
- Battery Deep Discharge Protection-Protects the battery from deep discharge that increases the life of battery.
- Noiseless Operation on Mains as Well as Backup Mode - No irritating noise during charging as well as battery mode operation.
- Power Saver Inside- Due to use of PFC Technology and better management of charging technology power saved by inverter drastically that reduces the electricity bill significantly.
- It can run ½ HP pump on 900VA and higher models.
- Its High Frequency Technology prevents computer rebooting saving you from the perils of data loss.



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