

Green Power for Ever



SS Solar PCU (Power Conditioning Unit)

ESP - PCU Series

1 KVA to 40 KVA

- Hybrid Design
- High Efficiency Design
- Four Line LCD Display
- DSP Controlled System
- Inbuilt MPPT Charge Controller
- Output Transformer for reliability
- User Selectable option for all functions





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SS Solar Hybrid UPS Optimizes the distribution of the generated Solar energy in your home or business according to your needs. The **SS** Solar Hybrid UPS includes both energy generation and energy storage system ensuring backup Power Supply during the day and night. The battery is charged through solar alone or Solar and grid Shared mode.

Once the Solar Power is good and the battery voltage is above the specific value, Hybrid function will start automatically. Your load will run through Solar Power and remaining Solar Power will Charge the battery.

Incase of any power cut in night time battery backup will support the load.

This intelligent energy management will be taken care by **SS** solar hybrid UPS.

4 Line LCD Display

```
Solar :nil
Grid :fail
Inverter:ON
Battery :Discharging
```

```
Solar Volt (U): 0.
Solar Curr (A): 0.
Batt Volt (U): 51.8
Batt Curr (A):+ 6.8
```

```
Inver Volt (U): 226
Grid Volt (U): 218
Output Volt (U): 226
Load (%) : 0
```

Technical Specifications

Model	SS 1100			SS 3100
Inverter Capacity	1KVA - 3KVA	3KVA - 6KVA	5KVA - 10KVA	10KVA - 40KVA
DC Voltage	48V	96V	120V-180V	240V-360V
Photovoltaic Voltage Range	50-110 V	100-200 V	128-240 V	240V : 255V-500V 360V : 365V-700V
Maximum PV Power Recommended (KW)	10% higher than the inverter Capacity in Watts			
Charge Controller	MPPT based Charge Controller			
Charging Type	Bi-directional		Uni-directional	
Grid Charger Rating	As per System Setting & Battery Capacity			
Grid Input	Single Phase			Three Phase
Grid Input Voltage Range	160V - 270V			340V - 470V
Type of Inverter	MOSFET based		IGBT based	
O/P Wave form	Pure Sinewave			
O/P Power Capacity	1KVA-40KVA (@ output PF 0.8)			
O/P Voltage	225 ± 5V			
O/P Frequency	50Hz ± 0.5 Hz			
Inverter Efficiency	>85%		> 90%	
Over Load Capacity	125% - 1min, 150% - 10sec			
Static Change Over Time	< 10msec			
Operating Temperature	0-50 Deg. Celsius			
Enclosure Protection	IP 20			
Metering Parameter Display	Solar Voltage	Solar Units	Output frequency	
	Solar Current	Inverter Voltage	Float Voltage	
	Battery Voltage	Grid Voltage	Boost Voltage	
	Battery Current	Output Voltage	Heatsink Temperature	
	Solar Power	Load %		
Metering Status Display	Solar, Grid, Inverter, Battery			
LED Indication	Solar ok, Grid ok, Load on Grid, Inverter ok, Battery ok, Output ok			
Fault Indication	The above LED's will blink			
Fault Display and Protections	O/P Over (V)	DC Under (V)	Over Temperature	
	O/P Over load	DC Over (V)	Short Circuit	
Protections	MCB for Grid, PV array, Battery, Output, Fuse at Inverter I/P (or) Fuses at Battery, Output			

Note : Specifications subject to change without prior notice

*Conditions Apply



For Your Power Solutions Contact :

SS Systems™

Site No. 4, SF No. 20, Sakthi Nagar, Padmavathi Layout,
Chinnavedampatti, Coimbatore - 641 049, Tamil Nadu, INDIA
Phone : 0422 - 2668812, 2668813 Cell : 94437 32011
E-mail : ss_ups1@yahoo.com, ssups1@gmail.com
Web : www.ssups.com, www.ssups.net, www.sinewavesolarinverter.com

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