



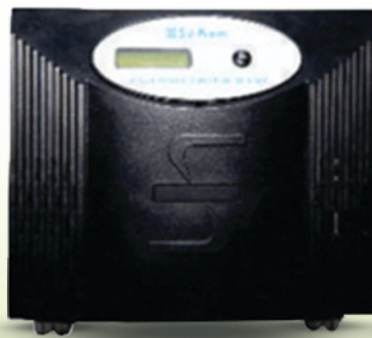
OFF-GRID SOLAR PCU SERIES

100VA to 6.25 KVA

INDIA'S NEXT GENERATION
SOLAR HYBRID UPS



1KVA



2KVA



3KVA-6.25KVA

SOLAR PCU
(POWER CONDITIONING UNIT)

SOLAR UPS WITH
HYBRID CHARGE CONTROLLER

FEATURES:

- 30% Boost in Charging Current • Smart Grid priority selection • Designed at Unity Power Factor
- Maximize Solar Power Utilization • Local & Remote monitoring option
- LCD display for easy monitoring of the system

TECHNICAL SPECIFICATIONS

Type	MPPT BASED SOALR POWER CONDITIONING UNIT			
Technology	DSP Based MPPT Technology			
Solar PCU RATING	100VA	500VA	600VA	1000VA
PV CHARGE CONTROLLER RATING	100Wp	500Wp	600Wp	1000Wp
Model No.	PCU1H24	PCU5H24	PCU600H24	1K24
INPUT PARAMETERS				
Nominal I/P DC Voltage	24V			
Input DC Voltage Range	23.2-28.8V±0.2V		23.7-28.8V±0.2V	22.0-28.8V ± 0.4 V
Low Battery cut off	23.2V±0.2V		23.7v±0.2V	22.0V±0.4
Inverter Restart time after low battery when mains is not available	Battery voltage should be ≥ 27V			
High Battery shutdown	31V±2V			
No load Power Consumption with No load shutdown enable	Less than 10W			
No load shutdown ON/OFF (Factory settable as per customer requirement)	N/A			
OUTPUT PARAMETERS				
Waveform & Regulation	Pure Sine Wave 220V±2%			
Efficiency (typical)at linear load	≥88%		≥85%	
Total Load	100W @ UPF / 500W @ UPF		600W@UPF	1KW@UPF
Grid power usage	Automatic only after low battery cut-off and after attaining float charge stage mains power usage will discontinue and charging from mains will happen during 10 am to 6 pm only when PV power is insufficient.		Automatic, if batteries voltage < 24 V in S-G-B mode and < 22 V in S-B-G mode. After attaining float charge stage mains power usage will discontinue when PV power ≥ 50W	
Transfer Time inverter to mains and vice-versa	Typical>20msec			
	GRID CHARGER			
Grid I/P Voltage Range	150VAC-260VAC		160VAC-250VAC±10V	150 VAC to 275 VAC ±10V
Charging Current	4.0A±0.5A	13.0A±1A	20.0A±1A	15Amp + 1Amp
	SOLAR CHARGE CONTROLLER			
Type	MPPT			
Charging Current Imax. Peak	5.0A	24.0A	20.0A	1kWp PV Module 30A input current, Vmp approx. 34V in ideal Test Conditions.
Bulk Voltage	28.4V +Temp. Compensation			28.8+ Temperature Compensation
Adjustable Bulk Voltage	(Adjustable 27.6V-28.8V) factory setting 28.8V			
Float Voltage	27.4V+Temp. Compensation			

Note: Specifications are subject to change without any prior notice.
For other technical specifications, pls refer to our detailed catalogue.

*Higher efficiency with different higher battery voltage configuration

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