

SOLAR POWER CONDITIONING UNIT

Dual Advantage of Hybrid PCU



600 VA
to
10 kVA

All-in-one solution
with Solar Inverter,
Charge Controller
& Grid Charger.

FEATURES:

- User Friendly LCD
- Intelligent Operation
- Pure Sine Wave output
- Data logging monitoring
- Auto day/night detection
- Deep discharge protection for the battery
- Smart overload sense & short circuit protection

TECHNICAL SPECIFICATIONS

Type	Single Phase Solar Power Conditioning Unit (Solar Hybrid Inverter)						
Technology	DSP Based PWM Technology						
Ratings	600VA-1kVA	2kVA	3kVA	4kVA	5kVA	6kVA	10kVA
Model No.	PCU6H24 / 1K24	PCU2K48	PCU3K96	PCU4K96	PCU5K96	PCU6K96	PCU10K120
Capacity PV	600Wp / 1.3kWp	2kWp	3kWp	4kWp	5kWp	6kWp	10kWp
INVERTER							
Input Parameters							
Nominal Input Voltage (DC)	24V	48V	96V	120V			
Input Voltage Range (DC)	21V-31V	44-60V	88-120V	110-150V			
Main (Grid) Mode Wide Window (WW)							
Grid Range	155VAC - 280VAC \pm 10V						
Narrow Window (NW) recommended for PC load							
Grid Range	185VAC - 265VAC \pm 10V						
Battery Charging							
Grid Charging Current	10A - 20A (Other options on request)						
Output Parameters							
Wave form type	Sine Wave						
Load Regulation	230V \pm 2%						
Output Voltage Regulation	230V \pm 5% (throughout battery range / load)						
Output frequency	50 Hz \pm 0.5Hz						
Typical Efficiency*	85%						
Total Harmonic Distortion	\leq 5% (On Linear Load)						
Crest Factor	>3:1						
Display	LCD						
SOLAR CHARGE CONTROLLER							
Type	Series Regulator PWM based Common Negative						
Maximum Input PV Voltage	50V	100V	200V	250V			
Solar Array	Single Array						
Bulk Voltage*	28.8V \pm 2%	57.6V \pm 2%	115.2V \pm 2%	145V \pm 2%			
Absorption Period	Hold battery voltage at bulk setting for a cumulative period of 1 hour						
Float Voltage*	27V \pm 2%	54V \pm 2%	108V \pm 2%	135V \pm 2%			
Protection	Over Current, Battery Over Charge, PV Reverse Polarity, Reverse Current Flow, High Temperature						
Environment							
Forced cooling	through cooling fan						
Humidity	0-95%						
Operating & Storage Temp.	0 $^{\circ}$ - 55 $^{\circ}$ C						

Note: Specifications are subject to change without any prior notice.

*Higher efficiency with different higher battery voltage configuration

Certifications

ISO 9001:2008 ISO 14001:2004



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Ek nayi soch

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