

Solar Power Conditioning Unit



FEATURES:

- No Load Shut Down for load $\leq 5\%$
- Short Circuit & Over Load Protection
- Over heating Protection
- Inbuilt Heavy Duty Solar Charge Controller.
- Fully equipped with powerful Grid Charger.
- Dual Display showing PV & Inverter output.
- User friendly client and Web based Software

1 kW to 10 kW

Type	Single Phase Solar Power Conditioning Unit							
Technology	DSP Based PWM Technology							
Ratings	1KW	2KW	3KW	4KW	5KW	6KW	7.5KW	10KW
Model No.	PCU1K24	PCU2K48	PCU3K48	PCU4K96	PCU5K96	PCU6K120	PCU7.5K120	PCU10K180
INVERTER								
INPUT PARAMETERS								
Nominal Input Voltage (DC)	24V		48V		96V		120V	180V
Input Voltage Range (DC)	21V-31V		44-60V		88-120V		110-150V	165-225V
OUTPUT PARAMETERS								
Voltage Regulation	230V ± 2% / 110V ± 2%							
Frequency Regulation	50Hz / 60Hz ± 0.05Hz							
Efficiency	>87%							
Output Waveform	Pure Sine Wave							
Total Harmonic Distortion	<3% (On Linear Load)							
Crest Factor	>4:1							
SOLAR CHARGE CONTROLLER								
Type	Series Regulator Common Negative							
Maximum Input PV Voltage	25V Per 12V Solar Panel							
Charging Current	Upto 40Amp							
Solar Array	Single Array							
Bulk Voltage		56.4V	113V	141V	212V			
Adjustable Bulk Voltage		54-58V	108-116V	135-145V	202-218V			
Absorption Period	Hold battery voltage at bulk setting for a cumulative period of 1 hour							
Float Voltage		108V	124V	135V	270V			
Protection	Over Current, Battery Over Charge Protection, PV/Battery Reverse Polarity, Reverse Current Flow, High Temperature							
GRID CHARGER								
Grid Input Voltage Range	150VAC - 270VAC							
Charging Current	Upto 20Amp							
Other Specifications								
Indications	Indications for PV Voltage, Battery Voltage, Output Voltage, Output Frequency, Output Current, Charging Current, Charging Mode, High Temperature, High Current, Array/Battery Reverse Polarity etc.							
Operating Temperature	0°C to +45°C							
Storage Temperature	0°C to +55°C							
Acoustic Noise (at 1mts)	<60dB							

Specifications are subject to change without prior notice.



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Certifications

ISO 9001:2008 ISO 14001:2004



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