

Solar

POWER CONDITIONING UNIT



Range: 1KVA-10KVA



SALIENT FEATURES

- › Pure Sine Wave .
- › Pure Sine Wave Output with low Total Harmonic Distortion (THD).
- › High Efficiency & High reliability.
- › Thermal protection..
- › High surge capability (upto 300%) for starting heavy load.
- › Noiseless in operation.
- › User- friendly display.

APPLICATIONS

Our solar inverter finds application in the following areas.

- › Electrification of villages in remote areas
- › Medical facilities in rural areas
- › Microwave / Radio repeater stations
- › Emergency communication systems
- › Water quality and environmental data monitoring systems
- › Pumping systems for irrigation, rural water supplies and livestock watering
- › Aviation obstruction lighting systems
- › Rail/Road signals
- › Electrification of school in rural areas
- › Power source for summer vacation homes/resorts
- › Shops, micro enterprises, offices etc.

METRO EXPORTERS PVT.LTD

Solar POWER CONDITIONING UNIT



TECHNICAL SPECIFICATIONS

Type	Single Phase Solar Power Conditioning Unit						
Technology	DSP Based PWM Technology						
Ratings	2KW	3KW	4KW	5KW	6KW	7.5KW	10KW
Model No.	PCU2K48	PCU3K48	PCU4K96	PCU5K96	PCU6K120	PCU7.5K120	PCU10K180
	INVERTER						
INPUT PARAMETERS							
Nominal input Voltage (DC)	48V		96V		120V		180V
Input Voltage Range (DC)	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 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						
Relative Humidity	0-95% Non-Condensing						

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