

# GENERATE POWER FROM SOLAR ENERGY

**iSOLAR**

**For High  
Performance !**

## MPPT SOLAR PCU

MPPT Solar PCU 5KVA/48V



### High Efficiency Okaya TRUE MPPT SOLAR PCU

- ▶▶ Advanced DSP Based Technology.
- ▶▶ Adaptive MPPT Logic for excellent power generation.
- ▶▶ Pure Sinewave Output.
- ▶▶ User Friendly LCD Display.
- ▶▶ State of the art and advanced DSP based MPPT Technology ensures 30% More Energy generation from Solar PV.
- ▶▶ Advanced Charge Sharing ensures optimum Saving of Electricity.
- ▶▶ ECO mode / Grid mode / Mains mode selection.
- ▶▶ Remote monitoring (Optional Feature).

## OKAYA MPPT SOLAR PCU 5KVA/48V

TECHNICAL SPECIFICATIONS	
<b>MODEL MPPT SOLAR PCU</b>	<b>5KVA/48V</b>
PV Controller Topology	MPPT
Rated Capacity	5KVA
Battery Nominal Voltage	48V
Output Waveform	Pure Sinewave
Maximum Solar Input Power (W)	5000W
Maximum Solar Input Voltage (Voc)	190V
MPPT Operating Voltage Range (Vmp)	70V~160V
Peak Charge Controller Efficiency	98%
Grid Input Voltage Range	Normal Mode: 100V~280V UPS Mode: 180V~260V
Switching Element (MPPT Charger)	IGBT
No. of Output Phase	1 Phase
Inverter Output voltage at Nominal DC	230V±2%
Output Frequency	50Hz±0.5Hz
THD	≤ 3% (at Linear Load)
Transfer Time	<b>Normal Mode:</b> Mains to Back-up <40mSec Back-up to Mains <15mSec <b>UPS Mode:</b> Mains to Back-up <12mSec Back-up to Mains <10mSec
LCD Display Parameters	Battery Voltage & Current / Mains Voltage & Frequency PV Power, Total Generation & Today's Generation / Load Power Load Voltage, Current & Frequency (Inv. Mode Only) / Time & Date Battery Charging/Discharging Status / User Settings & Factory Settings
Protections Status Display	Overload, Short Circuit, Battery & PV Reverse Polarity, Battery Over/ Under Voltage, Battery Current Limit, Mains Over/Under Voltage, System Over Temperature & Grid/Load/PV Surge Protection (MOV)
Clearance on all side for Installation	Recommended 1 Feet
Operating Temperature / Relative Humidity	0~50°C / 5%-95% (Non Condensable)
Weight(Kgs.)	Net: 52.95Kgs. / Gross: 55.55Kgs.
Dimensions (LxWxH) in mm	448.5x275x611

NOTE: Because of a policy of continuous product improvement, the specifications are subject to change without prior notice.

**APPLICATIONS: Office, Home, Shops, Schools, Colleges, Hospitals, Clinics, Institutions, Factories, Petrol Pump, Air-Conditioner, Submersible Pump, Lights, Fans, Home Appliances, Dental Chair and Photocopier**



Petrol Pump



Air-Conditioner



Submersible Pump



Factories



Lights/Fans

