

POWER SOLID ONLINE SOLAR UPS

PS-POU5KW#48VPV

5 KVA

Features

- ▶ True double-conversion online UPS
- ▶ Output power factor 1.0
- ▶ Built-in 80A MPPT solar charger and 60A AC charger
- ▶ Configurable AC/Solar input priority via LCD setting
- ▶ Parallel operation up to 9 units
- ▶ Common 48Vdc battery pack for the parallel system
- ▶ Configurable charging current via LCD setting
- ▶ Compatible with Generator
- ▶ Cold Start capability
- ▶ Overload and short circuit protection



Technical Specifications

Model		PS-POU5KW#48VPV
MAXIMUM PV INPUT POWER		4000W
CAPACITY		5000VA/5000W
Input		
Voltage		230 VAC
Voltage Range		110-280 VAC
Frequency Range		50 Hz/60 Hz (Auto sensing) \pm 4Hz
Power Factor		> 0.98 @ Nominal Voltage (100% Load)
THDi		< 10%
Output		
AC Voltage Regulation (Batt. Mode)		230VAC \pm 5%
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz
Frequency Range (Batt. Mode)		50 Hz
Harmonic Distortion		\leq 3% THD (Linear Load), ; \leq 5 % THD (Non-linear Load)
Transfer Time	AC to Battery	Zero
	Inverter to Bypass	4ms (Typical)
Waveform		Pure Sinewave
Efficiency		
Line Mode		93.0%
Battery Mode		90.0%
ECO Mode		99.0%
Battery		
Battery Voltage		48 VDC
Floating Charge Voltage		54 VDC
Overcharge Protection		66 VDC
Physical		
Solar Charger type		MPPT
Maximum PV Array Power		4000 W
MPPT Range @ Operating Voltage		60 ~ 115 VDC
Maximum PV Array Open Circuit Voltage		145 VDC
Maximum Solar Charge Current		80 A
Maximum AC Charge Current		60 A
Environment		
Dimension, D x W x H(mm)		465 x 190 x 336
Net Weight (kgs)		16
Communication Interface		RS232 & USB
OPERATING ENVIRONMENT		
Humidity		5% to 95% Relative Humidity (Non-condensing)
Operating Temperature		-10°C to 50°C
Storage Temperature		-15°C to 60°C