

PURE SINE WAVE SOLAR INVERTER

PV5000 PRO Series

5.2KW | 230V | WIFI | BMS



Smart & Configurable

- Stable pure sine wave, safe for sensitive equipment
- Configurable input voltage, charging current, and AC/solar priority

Smart Charging & Protection

- Overload, over-temperature, and short-circuit protection
- Intelligent charging design for optimized battery performance

Grid & Generator Compatible

- Works with mains power or generator input
- Auto restart when AC power recovers

Parallel & Remote Monitoring

- Parallel operation with up to 3 units
- Optional WiFi remote monitoring

MAIN PARAMETER

MODEL	PV50-3048 PRO	PV50-4048 PRO	PV50-5248 PRO
Nominal Battery System Voltage	48VDC		
INVERTER OUTPUT			
Rated Power	3000VA / 3000W	4000VA / 4000W	5200VA / 5200W
Surge Power	6000W	8000W	10400W
Waveform	Pure sine wave		
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)		
Inverter Efficiency(Peak)	90%		
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)		
AC INPUT			
Voltage	230VAC±5%		
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)		
Frequency Range	50Hz / 60Hz(Auto sensing)		
BATTERY			
Normal voltage	48VDC		
Floating Charge Voltage	54.8VDC		
Overcharge Protection	60VDC		
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Open Voltage	450VDC		
Maximum PV input Circuit	18A	18A	27A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)		
Maximum PV Array Power	4000W	5000W	6000W
PV Array MPPT Voltage Range	150~430 VDC		
Maximum Solar Charge Current	80A	80A	100A
Maximum AC Charge Current	60A	60A	80A
Maximum Charge Current	80A	80A	100A

OTHER PARAMETER

MODEL	PV50-3048 PRO	PV50-4048 PRO	PV50-5248 PRO
MECHANICAL SPECIFICATIONS			
Machine Dimension (W*H*D)(mm)	468*86.3*400		
Package Dimension (W*H*D)(mm)	546*185*540		
N.W(kg)	12.5		
G.W(kg)	14		
Warranty	2years		
OTHER			
Parallel operation	3 units		
Humidity	5% to 95% Relative humidity (Non-condensing)		
Operating Temperature	0°C~50°C		
Storage Temperature	-25°C~60°C		
CERTIFICATION & STANDARDS			
CE/IEC			