

HIGH FREQUENCY SOLAR INVERTER

PV1800 VPM II Series

1~3.2KW | 12V,24V | 45~60A



Smart Control

- Smart LCD for quick setup of key operating parameters.
- Solar/Utility/Battery hybrid supply ensures uninterrupted power.

Connected & Flexible

- USB, RS485, CAN interfaces with optional WiFi monitoring.
- Supports battery pack BMS communication for smart integration.

High PV Efficiency

- Built-in 45A-60A MPPT for higher solar harvest.
- Generator-ready with PV/AC activation for wider applications.

Strong Reliability

- Full protection against overload, short circuit, and deep discharge.
- Cold start capability for power-up even without the grid.

MAIN PARAMETER

MODEL	PV18-1012 VPM II	PV18-1512 VPM II	PV18-2224 VPM II	PV18-3224 VPM II
Default Battery System Voltage	12VDC	12VDC	24VDC	24VDC
INVERTER OUTPUT				
Rated Power	1000VA/ 1000W	1500VA/ 1500W	2200VA/ 2200W	3200VA/ 3200W
Surge Power	2000VA	3000VA	4400VA	6400VA
Waveform	Pure sine wave			
AC Voltage Regulation (Batt.Mode)	230VAC			
Inverter Efficiency(Peak)	90%~93%			
Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)			
AC INPUT				
Voltage	230VAC			
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)			
Frequency Range	50Hz / 60Hz (Auto sensing)			
BATTERY				
Normal voltage	12VDC		24VDC	
Floating Charge Voltage	13.8VDC		27.4VDC	
Overcharge Protection	15VDC		30VDC	
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Open Circuit Voltage	105VDC	145VDC	160VDC	160VDC
PV Array MPPT Voltage Range(Typ.)	15~75VDC	15~130VDC	30~128VDC	30~128VDC
Standby Power Consumption	2W			
Maximum PV Array Power	600W	720W	1600W	1600W
Maximum Solar Charge Current	45A	60A	60A	60A
Maximum Efficiency	98%			
Maximum AC Charge Current	20A	20A	40A	60A
Maximum Charge Current	65A	70A	100A	120A

OTHER PARAMETER

MODEL	PV18-1012 VPM II	PV18-1512 VPM II	PV18-2224 VPM II	PV18-3224 VPM II
MECHANICAL SPECIFICATIONS				
Machine Dimension(W*H*D) (mm)	224*337*98	255*318*110	290*367.4*121	290*367.4*121
Package Dimension(W*H*D) (mm)	410*178*300	402*206*355	430*205*389	430*205*389
N.W (kg)	3.6	5.5	5.3	5.5
G.W (kg)	4.3	6.0	6.4	6.6
OTHER				
Humidity	5% to 95% Relativ Humidity (Non-condensing)			
Operating Temperature	0°C~50°C			
Storage Temperature	-15°C -60°C			
Communication Interface	USB/WIFI (optional)			
Warranty	2years			

CERTIFICATION & STANDARDS

CE-LVD: EN 62109-1:2010; EN 62109-2:2011; CE-EMC: EN IEC 61000-6-1:2019; EN IEC 61000-6-3:2021