

HIGH FREQUENCY SOLAR INVERTER

PV1800 VPM II Series

1~5.5KW | 24V,48V | 45~80A

This is a multi-function inverter/charger, combining functions of inverter, MPPT 45~80A solar charge and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.



- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built in MPPT 40A/60A solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485, CAN monitoring function
- WIFI remote monitoring (optional)
- Compatible to generator
- PV/ AC activation function
- Smart battery pack BMS communication function (CAN Port)

Back panel description

1.2KW

3.5KW/4KW

1. AC output

2. AC input

3. Circuit breaker

4. PV input

5. Battery input

6. Power on/off switch

7. Dry contact

8. USB Communication port

9. RS-485,CAN Communication port

10. USB WiFi port (optional)

11. Ground

Solar system connection

MODEL	PV18-1012 VPM II	PV18-1512 VPM II	PV18-1224 VPM II	PV18-2224 VPM II	PV18-3224 VPM II	PV18-3524 VPM II	PV18-4024 VPM II	PV18-5048 VPM II	PV18-5548 VPM II									
Default Battery System Voltage	12VDC	12VDC	24VDC	24VDC	24VDC	24VDC	24VDC	48VDC	48VDC									
INVERTER OUTPUT																		
Rated Power	1000VA/1000W	1500VA/1500W	1200VA/1200W	2200VA/2200W	3200VA/3200W	3500VA/3500W	4000VA/4000W	5000VA/5000W	5500VA/5500W									
Surge Power	2000VA	3000VA	2400VA	4400VA	6400VA	7000VA	8000VA	10000VA	11000VA									
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				48VDC									
Floating Charge Voltage	13.8VDC				27.4VDC				54.8VDC									
Overcharge Protection	15VDC				30VDC				60VDC									
SOLAR CHARGER & AC CHARGER																		
Maximum PV Array Open Circuit Voltage	105VDC	145VDC	120VDC	160VDC	160VDC	160VDC	160VDC	245VDC										
PV Array MPPT Voltage Range (Typ.)	15~75VDC	15~130VDC	30~96VDC	30~128VDC	30~128VDC	30~128VDC	30~128VDC	60~200VDC										
Standby Power Consumption	2W																	
Maximum PV Array Power	600W	720W	1000W	1600W	1600W	1600W	1600W	4500W										
Maximum Solar Charge Current	45A	60A	40A	60A	60A	60A	60A	80A										
Maximum Efficiency	98%																	
Maximum AC Charge Current	20A	20A	30A	40A	60A	60A	60A	60A										
Maximum Charge Current	65A	70A	70A	100A	120A	120A	120A	140A										
MECHANICAL SPECIFICATIONS																		
Machine Dimension (W*H*D) (mm)	224*337*98	255*318*110	224*337*98	290*367.4*121	290*367.4*121	318*367.4*121	318*367.4*121	329*485*134										
Package Dimension (W*H*D) (mm)	410*178*300	402*206*355	299*184*292	430*205*389	430*205*389	549*200*410	549*200*410	/										
N.W (kg)	3.6	5.5	4.7	5.3	5.5	5.9	5.9	/										
G.W (kg)	4.3	6.0	5.5	6.4	6.6	7.2	7.2	/										
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-EMC+LVD(EN6100-6-3, EN6100-6-1+EN IEC62109-1, EN IEC62109-2)																		

*The technical specifications of this document are subject to change without any notice