

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 charger 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

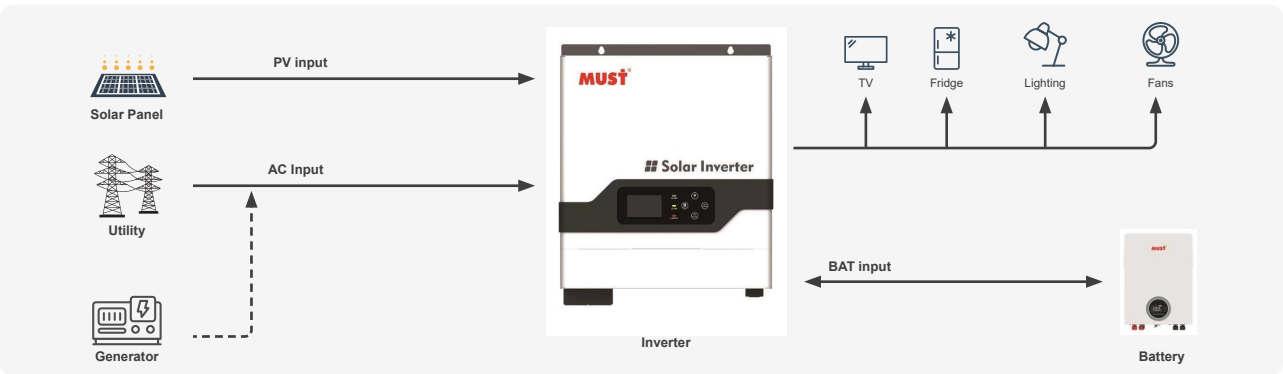
8. USB Communication port

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									

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