

HIGH FREQUENCY SOLAR INVERTER

PV1800 VPM II Series

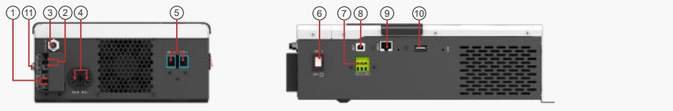
1~4KW | 24V | 40~60A

This is a multi-function inverter/charger, combining functions of inverter, MPPT 40A/60A 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.

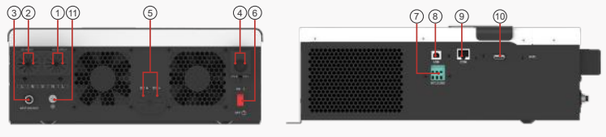
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Bult in MPPT 40A/60A solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, 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

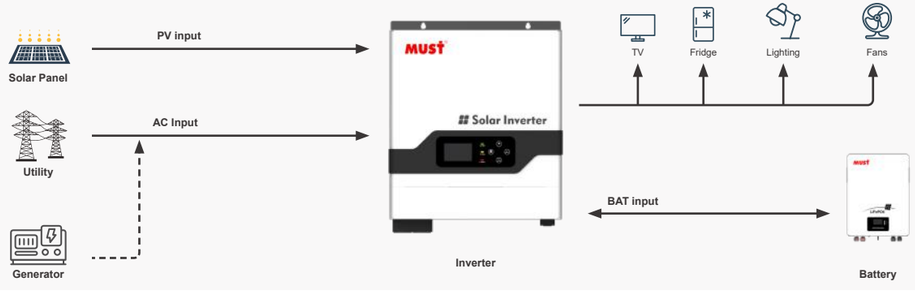


3.5KW/4KW



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
Default Battery System Voltage	12VDC	12VDC	24VDC	24VDC	24VDC	24VDC	24VDC
INVERTER OUTPUT							
Rated Power	1000VA/1000W	1500VA/1500W	1200VA/1200W	2200VA/2200W	3200VA/3200W	3500VA/3500W	4000VA/4000W
Surge Power	2000VA	3000VA	2400VA	4400VA	6400VA	7000VA	8000VA
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	120VDC	160VDC	160VDC	160VDC	160VDC
PV Array MPPT Voltage Range (Typ.)	15~75VDC	15~130VDC	30~96VDC	30~128VDC	30~128VDC	30~128VDC	30~128VDC
Standby Power Consumption	2W						
Maximum PV Array Power	600W	720W	1000W	1600W	1600W	1600W	1600W
Maximum Solar Charge Current	45A	60A	40A	60A	60A	60A	60A
Maximum Efficiency	98%						
Maximum AC Charge Current	20A	20A	30A	40A	60A	60A	60A
Maximum Charge Current	65A	70A	70A	100A	120A	120A	120A
MECHANICAL SPECIFICATIONS							
Machine Dimension (W*H*D) (mm)	224*337*98	255*318*110	224*337*98	254.5*367.4*103	254.5*367.4*103	318*367.4*121	318*367.4*121
Package Dimension (W*H*D) (mm)	300*410*178	355*402*206	299*292*184	436*331*189	436*331*189	549*410*200	549*410*200
N.W (kg)	3.6	5.5	4.7	5.5	5.5	5.9	5.9
G.W (kg)	4.3	6.0	5.5	6.5	6.5	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						
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