

HIGH FREQUENCY SOLAR INVERTER

PV1800 VPM Series

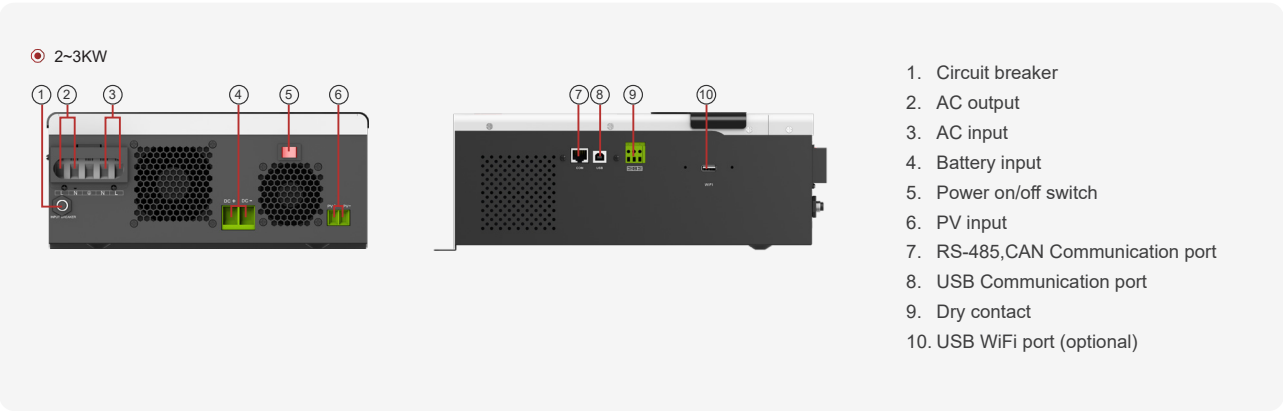
1~3KW | 12V, 24V | 40~60A

This is a multi-function inverter/charger, combining functions of inverter, MPPT 60A/80A solar charge controller 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.

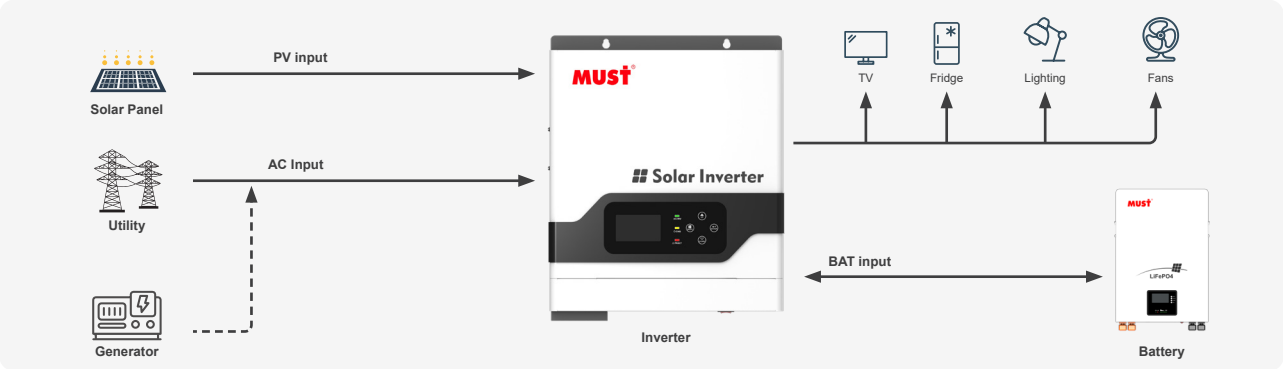


- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built in MPPT 40A/60A solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB,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

Back panel description



Solar system connection



MODEL	PV18-1012 VPM	PV18-1212 VPM	PV18-1512 VPM	PV18-2024 VPM	PV18-3024 VPM
Default Battery System Voltage	12VDC	12VDC	12VDC	24VDC	24VDC
INVERTER OUTPUT					
Rated Power	1000VA / 1000W	1200VA / 1200W	1500VA / 1500W	2000VA / 2000W	3000VA / 3000W
Surge Power	2000VA	2400VA	3000VA	4000VA	6000VA
Waveform	Pure sine wave				
AC Voltage Regulation (Batt.Mode)	220VAC~240VAC(Setting)				
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	12VDC	12VDC	24VDC	24VDC
Floating Charge Voltage	13.7VDC	13.7VDC	13.7VDC	27.4VDC	27.4VDC
Overcharge Protection	15VDC	15VDC	15VDC	30VDC	30VDC
SOLAR CHARGER & AC CHARGER					
Maximum PV Array Open Circuit Voltage	105VDC	105VDC	145VDC	145VDC	145VDC
PV Array MPPT Voltage Range	15~105VDC	15~105VDC	15~130VDC	30~120VDC	30~120VDC
Standby Power Consumption	2W				
Maximum PV Array Power	720W	720W	720W	1500W	1500W
Maximum Solar Charge Current	60A				
Maximum Efficiency	98%				
Maximum AC Charge Current	10A or 20A	10A or 20A	10A or 20A	20A or 30A	
Maximum Charge Current	70A	70A	70A	80A	
MECHANICAL SPECIFICATIONS					
Machine Dimension (W*H*D)	224*337*98mm	224*337*98mm	255*318*110mm	355*272*100mm	355*272*100mm
Package Dimension (W*H*D)	300*410*178mm	300*410*178mm	355*402*206mm	425*390*215mm	425*390*215mm
N.W (kg)	5kg	5kg	5.5kg	7.4kg	7.4kg
G.W (kg)	5.5kg	5.5kg	6.0kg	9.5kg	9.5kg
OTHER					
Humidity	5% to 95% Relativ Humidity (Non-condensing)				
Operating Temperature	0°C~50°C				
Storage Temperature	-15°C -60°C				
CERTIFICATION & STANDARDS					