

HIGH FREQUENCY SOLAR INVERTER
PV1800 VPM II Series

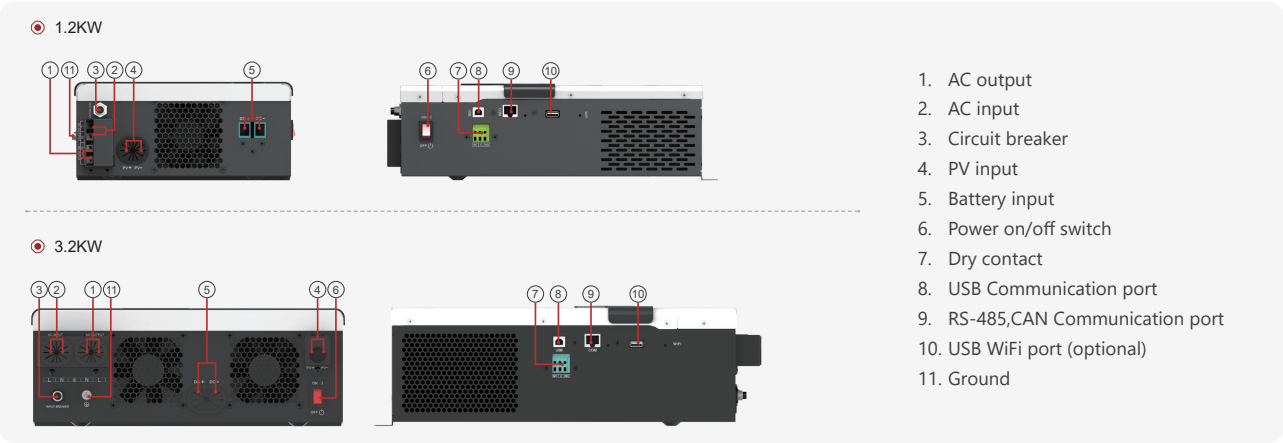
1~3.2KW | 12V,24V | 45~60A

This is a multi-function inverter/charger, combining functions of inverter, MPPT 45~60A 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.

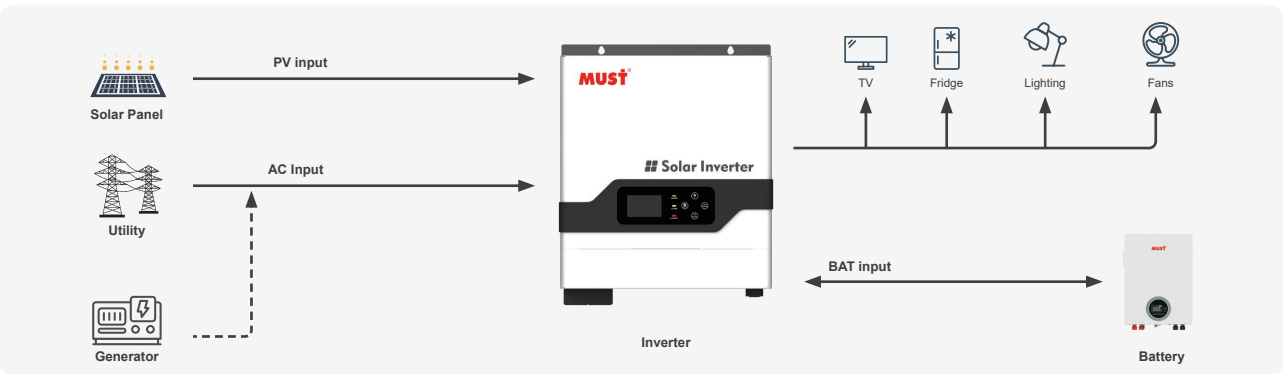


- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Bult in MPPT 40A/60A solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB,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



Solar system connection



MODEL	PV18-1012 VPM II	PV18-1512 VPM II	PV18-1224 VPM II	PV18-2224 VPM II	PV18-3224 VPM II
Default Battery System Voltage	12VDC	12VDC	24VDC	24VDC	24VDC
INVERTER OUTPUT					
Rated Power	1000VA/ 1000W	1500VA/ 1500W	1200VA/ 1200W	2200VA/ 2200W	3200VA/ 3200W
Surge Power	2000VA	3000VA	2400VA	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	120VDC	160VDC	160VDC
PV Array MPPT Voltage Range (Typ.)	15~75VDC	15~130VDC	30~96VDC	30~128VDC	30~128VDC
Standby Power Consumption	2W				
Maximum PV Array Power	600W	720W	1000W	1600W	1600W
Maximum Solar Charge Current	45A	60A	40A	60A	60A
Maximum Efficiency	98%				
Maximum AC Charge Current	20A	20A	30A	40A	60A
Maximum Charge Current	65A	70A	70A	100A	120A
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
Package Dimension (W*H*D) (mm)	410*178*300	402*206*355	299*184*292	430*205*389	430*205*389
N.W (kg)	3.6	5.5	4.7	5.3	5.5
G.W (kg)	4.3	6.0	5.5	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-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