

HIGH FREQUENCY SOLAR INVERTER

PV1800 PRO Series

3~5.2KW | 450V | WiFi | 9pcs parallel

PV1800 PRO is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. PV1800 PRO Series can run without battery. The Maximum PV array open circuit voltage can reach 450V and MPPT voltage is 150~430Vdc, which Can help customers make full use of solar energy.



- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT solar charge controller
- MAX PV Array Open Circuit Voltage: 450V
- 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 monitoring function
- Parallel operation with up to 9 units
- WIFI remote monitoring (optional)

Back panel description

• 3KW

• 5.2KW

1. AC Input

2. AC Output

3. PV Input

4. Power On/Off Switch

5. Battery Input

6. Circuit breaker

7. Dry Contact

8. USB port

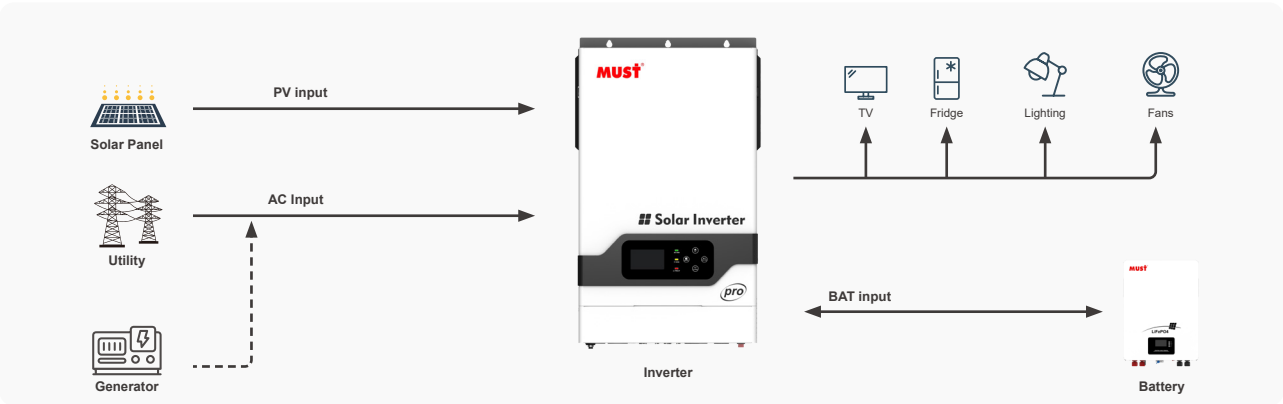
9. RS-485/CAN Communication port

10. Parallel switch (only for parallel model)

11. Parallel communication port (only for parallel model)

12. USB WiFi port

Solar system connection



MODEL	PV18-3024 PRO		PV18-5248 PRO	
Nominal Battery System Voltage	24VDC		48VDC	
INVERTER OUTPUT				
Rated Power	3000VA / 3000W		5200VA / 5200W	
Surge Power	6000W		10400W	
Waveform	Pure sine wave			
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)			
Inverter Efficiency(Peak)	90%			
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)			
AC INPUT				
Voltage	230VAC±5%			
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)			
Frequency Range	50Hz / 60Hz(Auto sensing)			
BATTERY				
Normal voltage	24VDC		48VDC	
Floating Charge Voltage	27.4VDC		54.8VDC	
Overcharge Protection	30VDC		60VDC	
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Open Circuit Voltage	450VDC			
Maximum PV input current	18A		18A	27A
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)			
Maximum PV Array Power	4000W		5000W	6000W
PV Array MPPT Voltage Range	150~430 VDC			
Maximum Solar Charge Current	80A	100A	80A	100A
Maximum AC Charge Current	60A	80A	60A	80A
Maximum Charge Current	80A	100A	80A	100A
MECHANICAL SPECIFICATIONS				
Machine Dimension (W*H*D)(mm)	322*486*134		309*505*147	
Package Dimension (W*H*D)(mm)	575*229*425		603*260*400	
N.W (kg)	10.6		12.9	
G.W (kg)	12		13.8	
OTHER				
Humidity	5% to 95% Relative humidity (Non-condensing)			
Operating Temperature	0°C~50°C			
Storage Temperature	-15°C~60°C			
Communication Interface	USB/WIFI			
Warranty	2years			
CERTIFICATION & STANDARDS				
CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011) EN IEC62368-1:2020+A11:2020 EN IEC62368-1:2018 Rohs-(2011/65/EUand2015/863/EU)				

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