

HIGH FREQUENCY SOLAR INVERTER

PV1800 PRO II Series

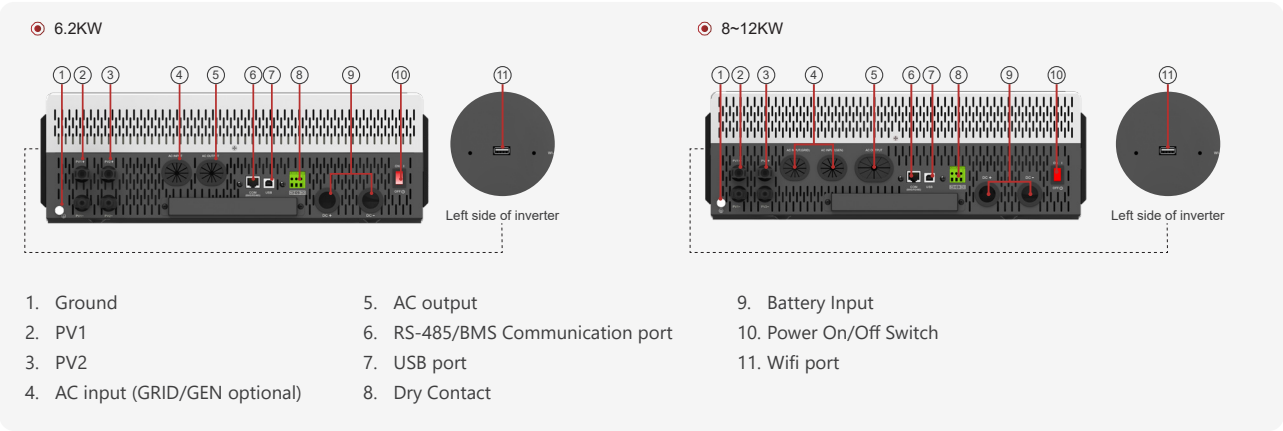
6.2~12KW | PV500V | 120A~150A | Dual output

The PV1800 PRO II is a highly versatile inverter/charger that combines an inverter, MPPT solar charge controller, and battery charger in a compact, space-saving design. It delivers reliable, uninterrupted power and supports battery-free operation when sufficient solar energy is available. With a maximum PV input voltage of 500V and an MPPT operating range of 90~430VDC, it features dual built-in MPPT solar charge controllers to ensure optimal solar energy harvesting and efficiency.

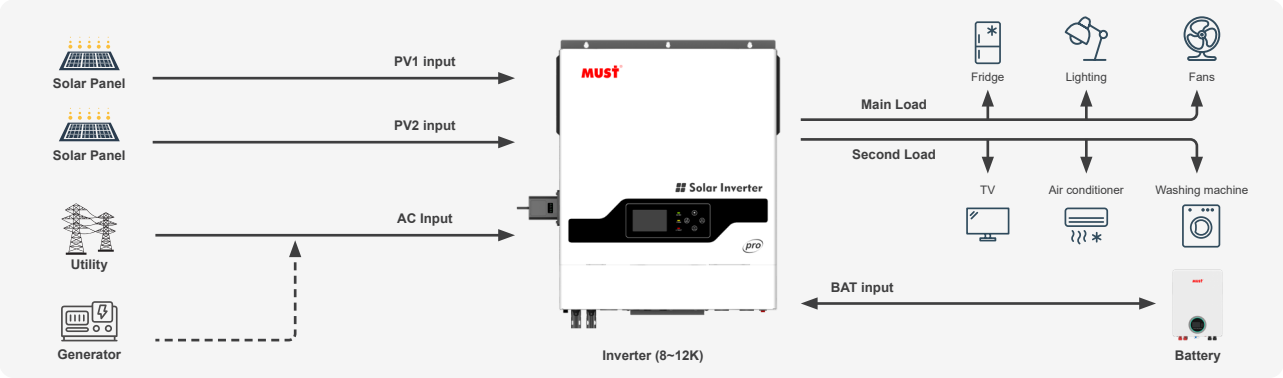


- Dual output for smart load management
- Smart color LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in Two MPPTs solar charge controller
- Wide MPPT voltage range is 90~450V, the maximum PV input voltage can reach 500V
- Can provide the power to the load without battery
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- With BMS lithium battery communication function
- With AC/PV lithium battery activation function
- Support USB, RS485 monitoring function
- Parallel operation up to 6 units (optional)
- WIFI remote monitoring (optional)

Back panel description



Solar system connection



MODEL	PV18-6248 PRO II	PV18-8048 PRO II	PV18-10048 PRO II	PV18-11048 PRO II	PV18-12048 PRO II
Default Battery System Voltage	48VDC				
INVERTER OUTPUT					
Rated Power	6200VA/6200W	8000VA/8000W	10000VA/10000W	11000VA/11000W	12000VA/12000W
Surge Power	12400W	16000W	20000W	22000W	24000W
Waveform	Pure sine wave				
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)				
Inverter Efficiency(Peak)	92%				
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	48VDC				
Floating Charge Voltage	54.8VDC				
Overcharge Protection	60VDC				
SOLAR CHARGER & AC CHARGER					
Maximum PV Array Open Circuit Voltage	500VDC				
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)				
Maximum PV Array Power	4000W*2	4000W*2	5000W*2	5500W*2	6000W*2
Maximum PV Input Current	18A*2	18A*2	27A*2(40A max)	27A*2(40A max)	27A*2(40A max)
PV Array MPPT Voltage Range	90~430VDC				
Maximum Solar Charge Current	120A	120A	150A	150A	150A
Maximum AC Charge Current	100A	120A	150A	150A	150A
Maximum Charge Current	120A	120A	150A	150A	150A
MECHANICAL SPECIFICATIONS					
Machine Dimension (W*H*D)(mm)	425*473*145	425*527*145			
Package Dimension (W*H*D)(mm)	/	/	/	/	/
N.W (kg)	/	17.9	17.9	18.0	18.0
G.W (kg)	/	20.5	20.5	20.6	20.6
OTHER					
Humidity	5% to 95% Relativ Humidity (Non-condensing)				
Operating Temperature Range	-10°C~50°C				
Storage Temperature Range	-15°C~60°C				
Warranty	2 year				
CERTIFICATION & STANDARDS					

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