

High Frequency On/Off Hybrid Solar Inverter (450V)

PH1900 EXP Series (4KW-6KW)

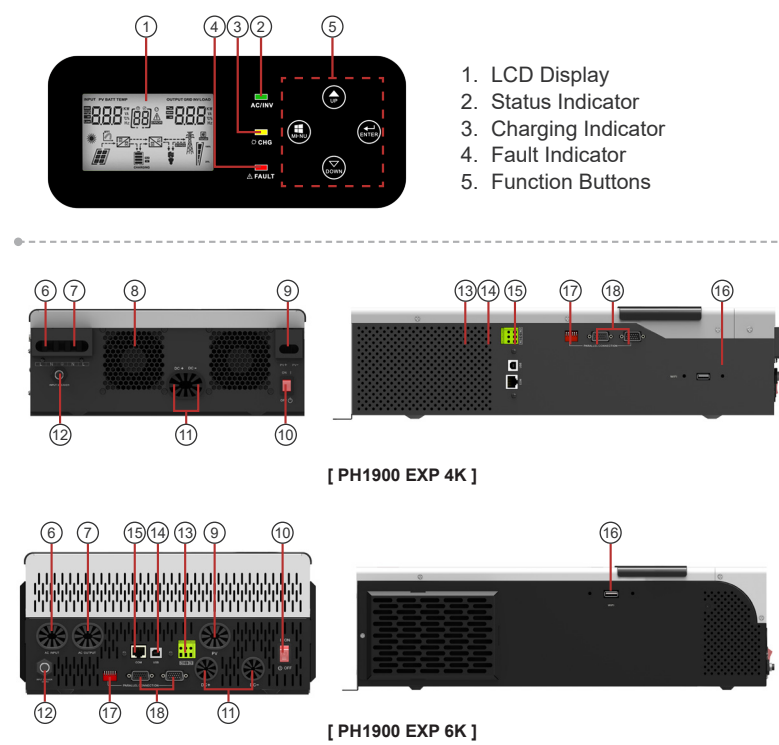
Features

- 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
- 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
- Cold start function
- Support USB, RS485 monitoring function
- Parallel operation with up to 3 units (for 48V mode)
- WIFI remote monitoring (optional)

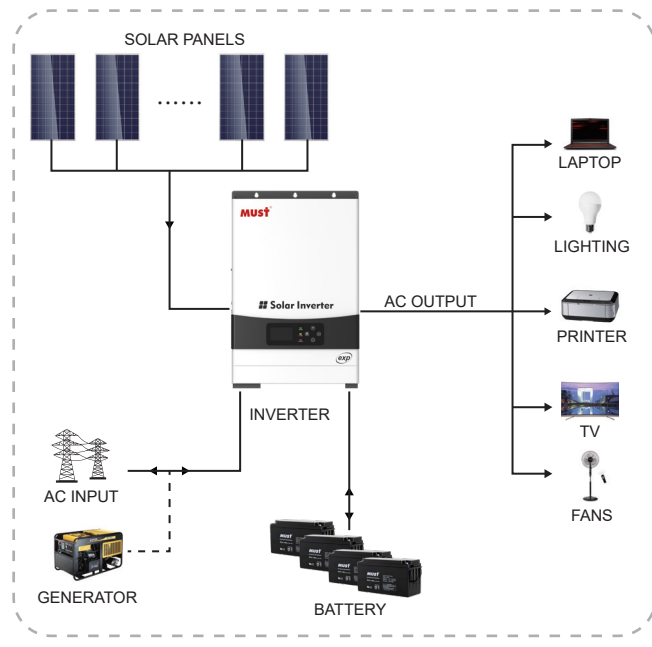
Introduction

PH1900 EXP is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. PH1900 EXP 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.

Back panel printing description



Solar system connection



Specification

MODEL	PH19-4024 EXP	PH19-6048 EXP	
Nominal Battery System Voltage			
	24VDC	48VDC	
INVERTER OUTPUT	Rated Power	4000VA / 4000W	6000VA / 6000W
	Surge Power	8000W	12000W
	Waveform	Pure sine wave	
	AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)	
	Inverter Efficiency(Peak)	90~93%	
	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	450V	
	Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)	
	Maximum PV Array Power	5000W	6000W
	PV Array MPPT Voltage Range	150~430VDC	
	Maximum Solar Charge Current	100A	120A
	Maximum AC Charge Current	80A	100A
	Maximum Charge Current	100A	120A
MECHANICAL SPECIFICATIONS	Machine Dimension (W*H*D)	322*486*134mm	309*505*147mm
	Package Dimension (W*H*D)	426*560*260.5mm	375*655*269mm
	G.W	8kg	14.4kg
	N.W	9.5kg	16.8kg
	OTHER	Humidity	5% to 95% Relative humidity (Non-condensing)
	Operating Temperature	0°C~50°C	
	Storage Temperature	-15°C ~60°C	

- 6. AC Input
- 7. AC Output
- 8. FAN
- 9. PV Input
- 10. Power On/Off Switch
- 11. Battery Input
- 12. Circuit breaker
- 13. Dry Contact
- 14. USB
- 15. RS-485/CAN Communication port
- 16. USB WiFi
- 17. Parallel switch (only for parallel model)
- 18. Parallel communication port (only for parallel model)