


# High Frequency On/Off Hybrid Solar Inverter

## PH1800 LV Series (AC120V: 3KW/ 6KW)



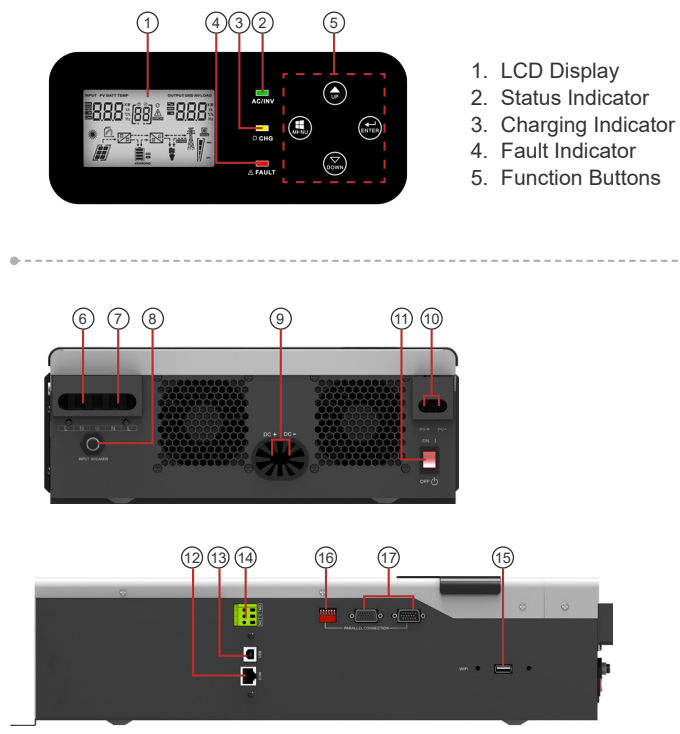
### Features

- Pure sine wave solar inverter
- Output power factor 1
- Built-in 80A MPPT solar charger
- 2 units can be wired in parallel to create a split-phase system with 120V and 240V capabilities for 3KW)
- Support parallel operation up to 3 units (3K Parallel in single phase)
- WIFI remote monitoring (optional)
- CAN/RS485 communication for BMS
- Compatible to generator

### Introduction

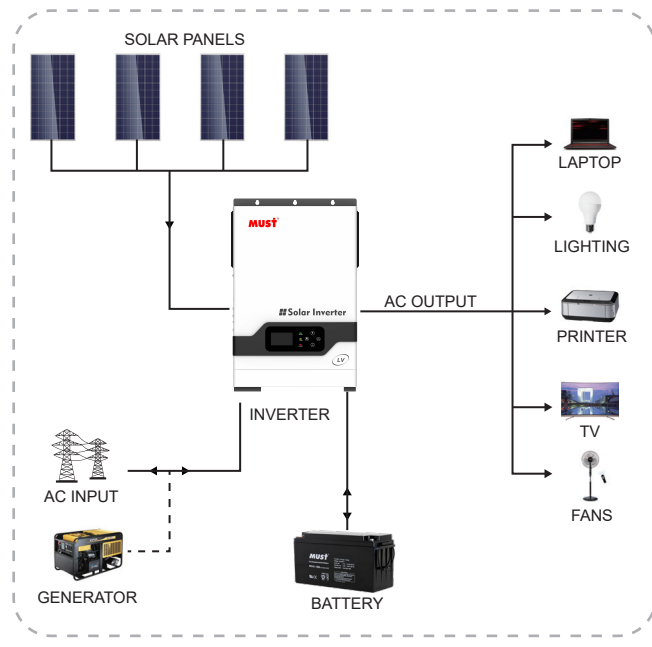
PH1800 LV Series is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

### Back panel printing description



6. AC input
12. RS-485 Communication port
7. AC output
13. USB
8. Circuit breaker
14. Dry contact
9. Battery input
15. USB wifi
10. PV input
16. Parallel switch (only for parallel model)
11. Power on/off switch
17. Parallel communication port (only for parallel model)

### Solar system connection



### Specification

MODEL	PH18-3024 LV	PH18-3048 LV	PH18-6048 LV	
Nominal Battery System Voltage		24VDC	48VDC	
INVERTER OUTPUT	Rated Power	3000W	3000W	6000W
	Surge Power	6000W	6000W	12000W
	Waveform	Pure sine wave		
	AC Voltage Regulation (Batt.Mode)	120VAC ±5%	120VAC ±5%	240VAC ±5% (L-L)
	Inverter Efficiency(Peak)	90%		
	Transfer Time	10ms (UPS / UL) 20ms (APL)		
AC INPUT	Voltage	120VAC	120VAC	240VAC
	Selectable Voltage Range	107~132VAC(UL)		214~264VAC(UL)
	Frequency Range	50Hz / 60Hz(Auto sensing)		
BATTERY	Normal voltage	24VDC	48VDC	48VDC
	Floating Charge Voltage	27.4VDC	54.8VDC	54.8VDC
	Overcharge Protection	30VDC	60VDC	60VDC
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	250VDC	250VDC	250VDC
	Maximum Solar Charge Current	100A	80A	80A/ 80A
	PV Array MPPT Voltage Range	90-200VDC	60-200VDC	60-200VDC
	PV Input Power	4000W	4000W	4000W/ 4000W
	Maximum Efficiency	98%		
	Maximum AC Charge Current	80A	60A	60A
	Maximum Charge Current	100A	140A	160A
MECHANICAL SPECIFICATIONS	Machine Dimension (W*H*D)	329*485*134mm	329*485*134mm	315*500*235
	Package Dimension (W*H*D)	425*575*229mm	425*575*229mm	/
	G.W	12kg	12kg	20kg
	N.W	13.5kg	13.5kg	22kg
OTHER	Humidity	5% to 95% Relative humidity (Non-condensing)		
	Operating Temperature	-10°C~50°C		
	Storage Temperature	-15°C ~60°C		