

ON/OFF Grid Hybrid Solar Inverter

PH1100 PRO Series (5KW)



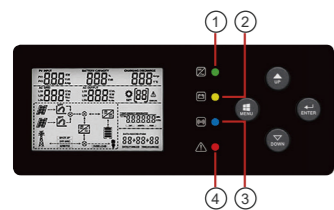
Features

- Wide range of MPPT voltage:120-550V
- Multiple operation modes: Grid-tie, off grid with storage backup
- Support LCD display & Smart LCD setting
- Available Export control CT sensor function
- Multiple communications: USB, RS485, GPRS and WIFI, etc.
- Monitoring inverters freely via computers or mobile phones
- Full protection function:Over-voltage,over-frequency, over-current, over-temperature and AC short-circuit automatic protection
- Intelligent BMS battery management function
- Fanless low-noise design
- IP65 Dust-proof and water-proof

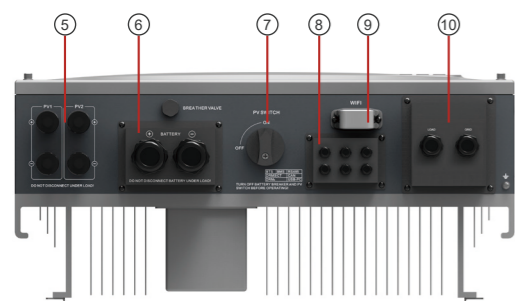
Introduction

This inverter is an excellent product that provides a sustainable and reliable solution for your energy needs. The product offers multiple operation modes, including ON GRID and OFF GRID with storage backup, making it suitable for all types of energy requirements. Additionally, the product is rated IP65, which means it is both dust-proof and water-proof, ensuring a long-lasting and durable system.

Back panel printing description

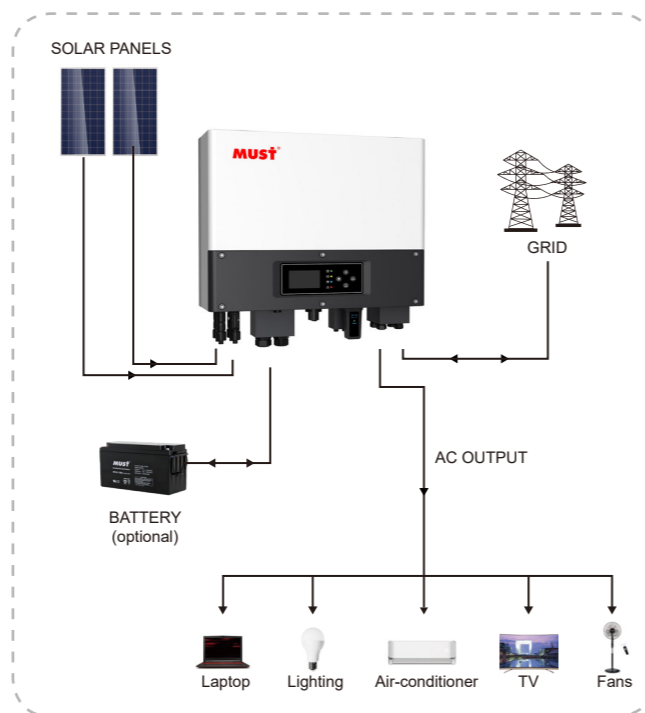


1. The inverter operation status indicator
2. Battery indicator
3. WiFi status indicator
4. Fault indicator



5. PV input terminals
6. Battery input terminals and cover
7. PV input switch
8. BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
9. Wi-Fi comodule
10. AC output terminals and cover

Solar system connection



Specification

MODEL	PH11-5048PRO	
RATED POWER(W)	5000	
Nominal Battery System Voltage	48	
PV INPUT(DC)	Maximum recommended DC power(W)	6000
	Nominal DC operating voltage(V)	360
	Maximum DC voltage(V)	500
	MPPT voltage range(V)	200~500
	Maximum input current(A)	15 / 15
	Maximum short circuit current(A)	No
	No.of MPP tracker	2
	Strings per MPP tracker	1
INVERTER OUTPUT(AC)	Nominal AC output power(W)	5000
	Nominal output voltage(V);range(V)	220/230/240;180-280
	AC grid frequency(Hz);range(Hz)	50/60;45~55/55-65
	Nominal output current(A)	21.7
	Maximum output current(A)	22.7
	Total harmonic distortion i(THDi)	<3%
	Power factor at rated power	1
	Displacement power factor	0.8leading ~ 0.8lagging
BATTERY MODE OUTPUT(AC)	Output Rated Power	5000
	Nominal output voltage(V);accuracy range	230±1%
	Output ferequency(Hz);accuracy range	50/60(optional)±0.2%
	Output rated current(A)	21.7
	Output waveform	Pure sine wave
	Total harmonic distortion v (linear load)	<3%
BATTERY & CHARGER	Battery type	Lead-acid battery / Lithium battery
	Battery voltage(V)	48
	Battery voltage range(V)	40~60
	Charging curve	Adaptive battery charging
	Over-current protection / Over-temperature protection	Yes / Yes
	Maximum charging power(W)	5000
EFFICIENCY	Maximum efficiency	97.1%
	Euro-efficiency	96.5%
	MPPT efficiency	99.8%
PROTECTION DEVICES	DC switch rating for each MPPT	Yes
	Grid monitoring	Yes
	Output over current protection	Yes
	Output overvoltage protection-varistor	Yes
	Ground fault monitoring	Yes
	Integrated all-pole sensitive leakage current	Yes
GENERAL	Dimension(W/H/D)(mm)	480*420*215
	Net weight (kg)	27
	DC connection	H4 / MC4
	AC connection	Terminal Block
	Display	LED+LCD
	Communication interfaces	Wi-Fi / USB / GPRS / RS485
	Ingress protection rating	IP65
	Humidity	0~95% RH(No condensing)
	Operating temperature range	-20°C +60°C with derating above 45°C
	Cooling concept	Natural
Altitude	<3000m	