


ON/OFF Grid High frequency Hybrid Solar Inverter

PH1000 PRO Series (5KW)



Features

- Wide range of MPPT voltage:120-550V
- Multiple operation modes: Grid-tie,off grid and grid-tie with back up
- 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

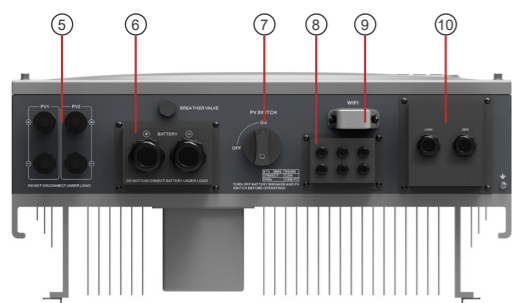
Introduction

This is a flexible and intelligent energy storage solar inverter with a wide range of MPPT Voltage. Combining functions of off grid and on grid. This hybrid solar inverter can power all kinds of appliances in home or office, and can also be used in power stations.

Back panel printing description

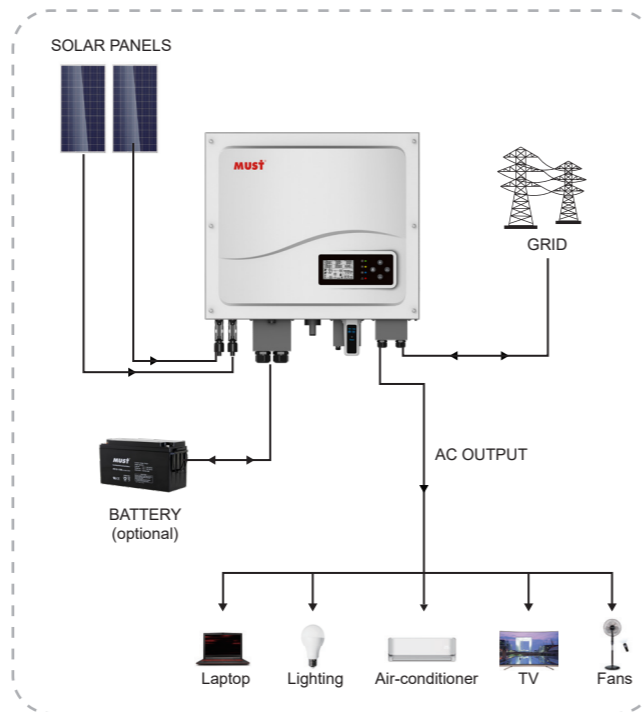


1. The inverter operation status indicator
2. Battery indicator
3. WiFi status indicator
4. Fault indicator



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	PH10-5048PRO	
RATED POWER		
	5000W	
INVERTER OUTPUT(AC)		
	Nominal Battery System Voltage	
	48V	
PV INPUT(DC)	Maximum recommended DC power	7000W
	Nominal DC operating voltage	360V
	Maximum DC voltage	550V
	MPPT voltage range	120~550V
	Maximum input current	13A / 13A
	Maximum short circuit current	15A / 15A
	No.of MPP tracker	2
	Strings per MPP tracker	1
BATTERY MODE OUTPUT(AC)	Nominal AC output power	5000W
	Nominal output voltage; range	220/230/240V;180-280V
	AC grid frequency; range	50/60Hz; 45~55/55-65Hz
	Nominal output current	21.8A
	Maximum output current	22.8A
	Total harmonic distortion i(THDi)	<3%
	Power factor at rated power	1
	Displacement power factor	0.8leading ~ 0.8lagging
	Output Rated Power	3000W
	Nominal output voltage; accuracy range	230V±1%
BATTERY & CHARGER	Output ferequency; accuracy range	50/60Hz(optional)±0.2%
	Output rated current	15A
BATTERY & CHARGER	Output waveform	Pure sine wave
	Total harmonic distortion v (linear load)	<3%
	Battery type	Lead-acid battery / Lithium battery
	Battery voltage	48V
	Battery voltage range	40~60V
	Charging curve	adaptive battery charging
	Over-current protection / Over-temperature protection	Yes / Yes
	Maximum charging/discharging power	4000W
Maximum charging/discharging current	80A / 80A	
EFFICIENCY	Maximum efficiency	97.3%
	Euro-efficiency	96.8%
	MPPT efficiency	99.9%
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
GENERAL	Integrated all-pole sensitive leakage current	Yes
	Machine Dimension (W*H*D)	480*420*215mm
	Package Dimension (W*H*D)	/
	G.W	27kg
	N.W	/
	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

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