

ON/OFF Grid High Frequency Hybrid Solar Inverter

PH1100 PRO Series (5KW)



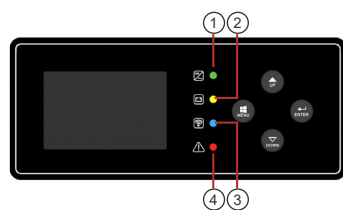
Features

- Wide range of MPPT voltage:120-500V
- 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

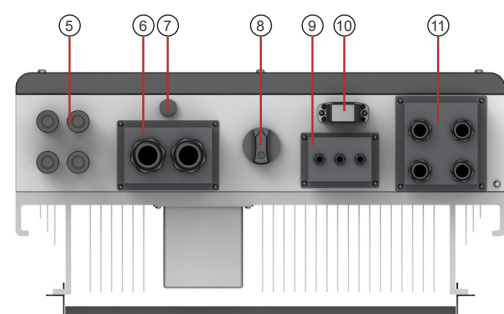
Introduction

This 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

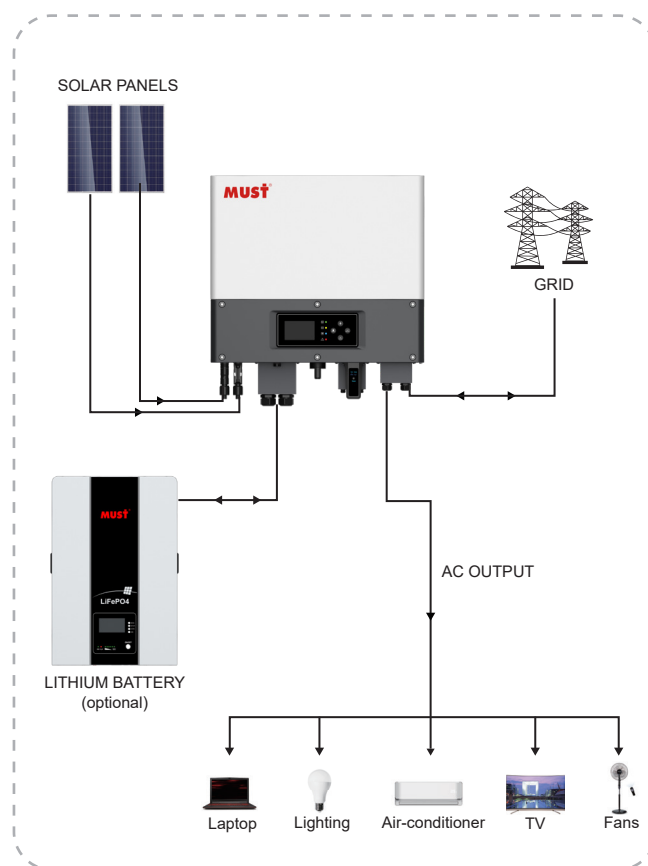


1. The inverter operation status indicator
2. Battery indicator
3. WiFi status indicator
4. Fault indicator



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

Solar system connection



Specification

MODEL		PH11-4048 PRO	PH11-5048PRO	PH11-6048 PRO
RATED POWER(W)		4000	5000	6000
Nominal Battery System Voltage		48		
PV INPUT(DC)	Maximum recommended DC power(W)	5000	6000	7000
	Nominal DC operating voltage(V)	360		
	Maximum DC voltage(V)	500		
	MPPT voltage range(V)	168~500	200~500	235~500
	Maximum input current(A)	15 / 15		
	No.of MPP tracker		2	
	Strings per MPP tracker		1	
INVERTER OUTPUT(AC)	Nominal AC output power(W)	4000	5000	6000
	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)	17.5	21.7	26
	Maximum output current(A)	18.1	22.7	27.2
	Inrush current (spike/duration)	57.5A/5.2us		
	Total harmonic distortion i(THDi)	<3%		
	Power factor at rated power	1		
	Displacement power factor	0.8leading ~ 0.8lagging		
	Grid type	Single phase		
	BATTERY MODE OUTPUT(AC)	Output Rated Power	4000	5000
Nominal output voltage(V);accuracy range		230±1%		
Output ferequency(Hz);accuracy range		50/60(optional)±0.2%		
Output rated current(A)		17.5	21.7	26
Output waveform		Pure sine wave		
Peak power(A)		6000,10s	7500,10s	9000,10s
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	3-stage adaptive with maintenance		
	Over-current protection / Over-temperature protection	Yes / Yes		
	Maximum charging power(W)	4000	5000	6000
	Maximum charging currenrnt(A)	85	100	125
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		

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