



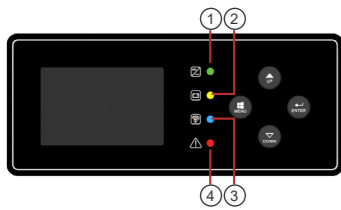
Features

- 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

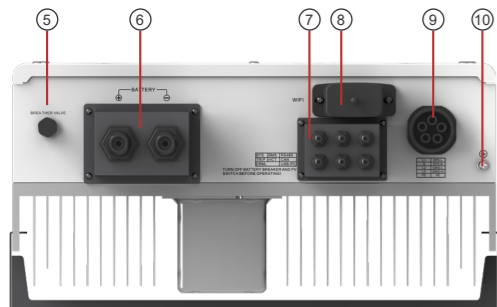
Introduction

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

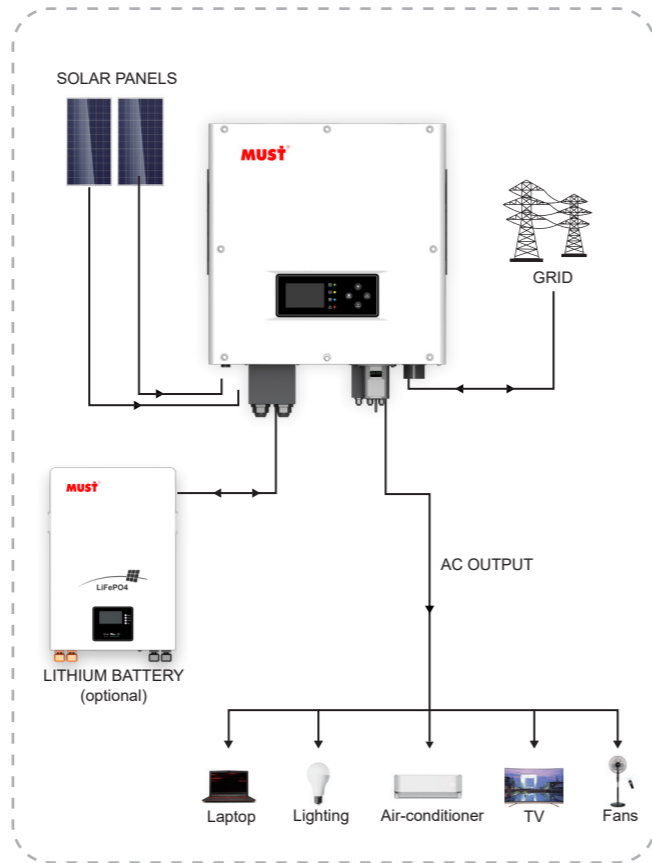


1. The inverter operation status indicator
2. Battery indicator
3. WiFi status indicator
4. Fault indicator



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

Solar system connection



Specification

MODEL	PH16-4048 PRO	PH16-5048 PRO	PH16-6048 PRO	
RATED POWER	4000W	5000W	6000W	
Nominal Battery System Voltage	48V			
PV INPUT(DC)	Maximum recommended DC power	4000W	5000W	5500W
	Nominal DC operating voltage	360V		
	Maximum DC voltage	500V		
	MPPT voltage range	120V~500V		
	Maximum input current	15A / 15A		
	No.of MPP tracker	2		
	Strings per MPP tracker	1		
INVERTER OUTPUT(AC)	Nominal AC output power	4000W	5000W	6000W
	Nominal output voltage range	220/230/240V;180-280V ±5VAC		
	AC grid frequency range	50/60Hz; 45~55/55-65Hz		
	Nominal output current	17.5A	21.7A	26A
	Maximum output current	35A	43.5A	52A
	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	4000W	5000W
Nominal output voltage; accuracy range		230±1%		
Output ferequency; accuracy range		50/60Hz (optional)±0.2%		
Output rated current		17.5A	23A	26A
Output waveform		Pure sine wave		
Peak power		4000W±5%	5000W±5%	6000W±5%
Total harmonic distortion v (linear load)		<3%		
BATTERY & CHARGER	Battery type	Lead-acid battery / Lithium battery		
	Battery voltage	48V ±0.3		
	Battery voltage range	40~60V ±0.3		
	Charging curve	3-stage adaptive with maintenance		
	Protection	Over-current protection / Over-temperature protection		
	Maximum charging power	4000W	5000W	6000W
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		
GENERAL	Integrated all-pole sensitive leakage current	Yes		
	Machine Dimension (W*H*D)	410*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/CAN		
	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			
Noise figure [dB]	≤25			
Altitude	<3000m			