



## PH3000 Series Three-phase Low Frequency On/Off grid Hybrid Solar Inverter

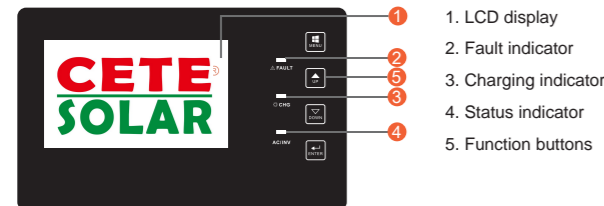
### Feature:

- Rated power 9KW to 12KW
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 180A solar charge controller
- MPPT Efficiency max 98%
- Combining solar system, AC utility, and battery power source to supply continuous power
- Multiple operations: basic Grid-tie, Off-Grid, Grid-Interactive
- Support CAN, RS485 monitoring function with free CD
- WIFI/ GPRS remote monitoring (optional)
- Compatible to generator

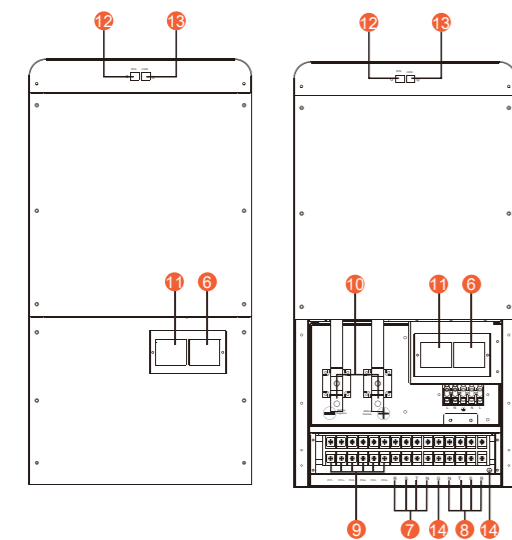
### Introduction:

This is a flexible and intelligent energy storage inverter which utilizes solar power, utility power, and battery power source to supply continuous power. This is a multi-functional hybrid inverter which can power all kinds of appliances in home or office environment, including motor-type appliances such as tube light, fan, refrigerator and air conditioner. The system generates electricity when it has sufficient sunshine, supplying power to your home and feeding any surplus power back to the Grid.

### LCD Display Information

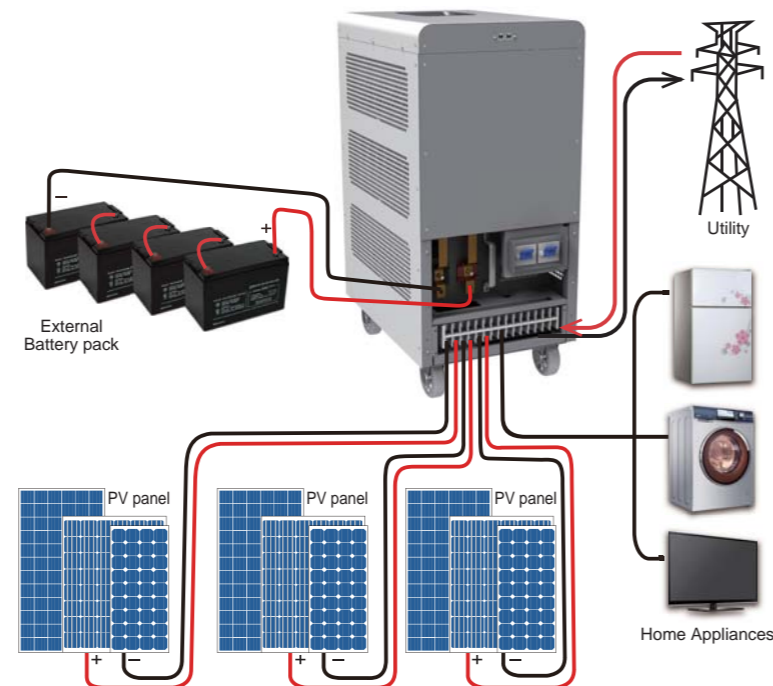


1. LCD display
2. Fault indicator
3. Charging indicator
4. Status indicator
5. Function buttons



6. Grid breaker
7. AC output
8. AC Input
9. PV input
10. Battery input
11. Inverter output protect
12. BTS
13. CAN&RS485 communication port
14. Earth

### Solar System Connection



### Specification

MODEL	PH30-9048-T	PH30-12048-T	
<b>Nominal Battery System Voltage</b>			
	48VDC		
<b>INVERTER OUTPUT</b>	Rated output power	9000W	12000W
	Output wave	Pure sine wave	
	Nominal output voltage	230 VAC (P-N) / 400 VAC (P-P)	
	Nominal output current	13.0A per phase	17.4A per phase
	Nominal output frequency	50 Hz / 60 Hz	
	Rate of wave distortion ( THD ) (Linearity loads)	Off grid≤2% ; Grid discharge ≤3% ; Grid charge ≤3%	
	Inverting efficiency	>93%	
	Power factor	0.9 lead – 0.9 lag	
<b>Overload capability</b>	100% < load≤110%,30 minutes;		
	110% < load≤125%,1 minutes;		
<b>AC INPUT</b>	125% < load≤150%,30 seconds;		
	load > 150%,10 seconds;		
<b>AC INPUT</b>	Short circuit,5 seconds		
	AC input maximum current	26.0A per phase	34.8A per phase
<b>AC INPUT</b>	Nominal frequency	50Hz / 60Hz	
	Acceptable input voltage range	Defaults 186Vac ~253Vac per phase;	
		Narrow 174Vac ~272Vac per phase;	
<b>BATTERY</b>	Wide 95Vac ~272Vac per phase		
	Nominal Voltage	48VDC	
	Low Voltage Protection Point	Charger 34.0VDC ; Inverter 40.0VDC	
	Absorption Voltage	50.0VDC	
	Refloat Voltage	54.8VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>	Float Voltage	57.2VDC	
	PV Open Circuit Voltage	145VDC	
	Max Solar Charging Current	60A per phase	
	Max AC Charging Current	60A per phase	80A per phase
<b>MECHANICAL SPECIFICATIONS</b>	Max Charging Current	120A per phase	140A per phase
	Mounting	Vertical	
	Machine Dimension, W*H*D(mm)	391*836*555	
	Package Dimensions (W*H*D)(mm)	410*850*570	
	Net Weight (kg)	133	140
	Gross Weight (kg)	138	160
<b>OTHER</b>	Communication terminal	RS485/CAN bus	
	Operation Temperature Range	-25°C~+50°C	
	Environmental Protection Rating	IP20	
	Ambient humidity	0 – 90% relative humidity(non-condensing)	
	Altitude	≤3000m	

\* Product specifications are subject to change without further notice.

### Approximate Back-up Time Table

Model	Load (W)	Back Time@4*100Ah(48Vdc) (min)	Back Time@4*200Ah(48Vdc) (min)	Back Time@8*200Ah(48Vdc) (min)
<b>9KW</b>	900	240	536	1096
	3600	42	99	252
	6300	24	49	120
	9000	17	35	68
<b>12KW</b>	1200	153	358	830
	4800	32	72	165
	8400	18	35	79
	12000	12	23	51