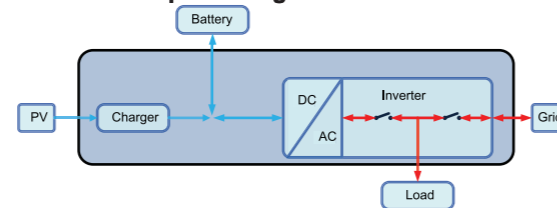




PH3000 Series Single-phase On/Off Grid Hybrid Solar Inverter

Feature:

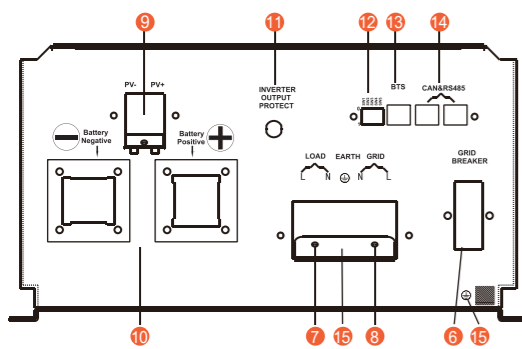
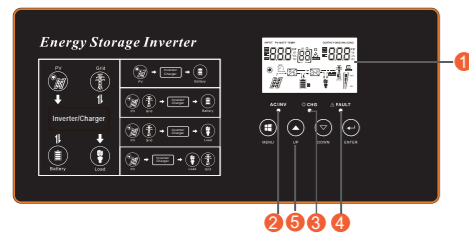
- Pure sine wave output
- ON/OFF Grid combined inverter with energy storage for future usage and directly power to the loads.
- Built in MPPT solar charge controller 60A
- Combining solar system, AC utility, and battery power source to supply continuous power
- Multiple operations: Basic Grid-Tie (On-Grid), Off-Grid, Grid-Tie with Battery Back-up also recognized as Grid-Interactive
- Can feed-in power to grid



Introduction:

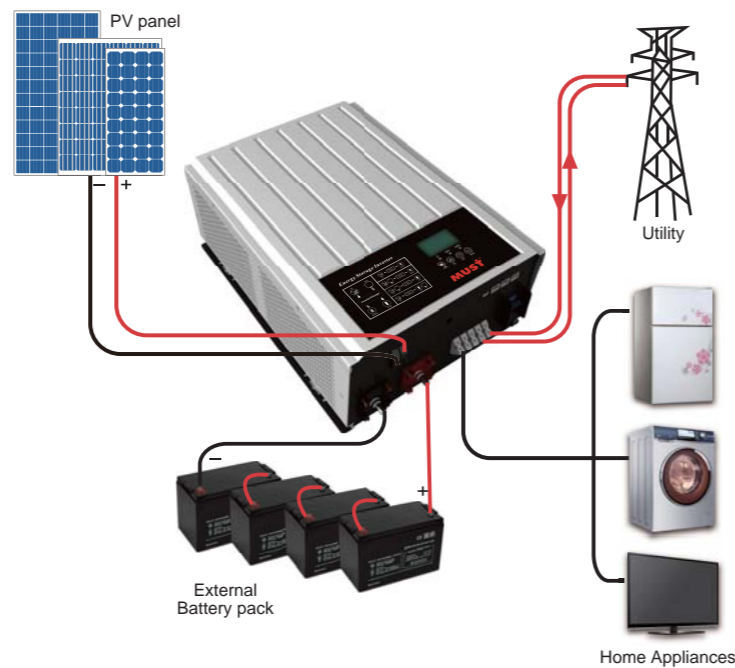
In Comparison with conventional grid-tie inverter, PH3000 is sale to not only feed-in power to grid but also store solar power to battery for future usage and directly power to the loads. combining functions of inverter, On-Grid, MPPT solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

LCD Display Information



- | | |
|-----------------------|----------------------------------|
| 1. LCD display | 9. PV input |
| 2. Status indicator | 10. Battery input |
| 3. Charging indicator | 11. Inverter output protect |
| 4. Fault indicator | 12. Switch |
| 5. Function buttons | 13. BTS |
| 6. Grid breaker | 14. CAN&RS485 communication port |
| 7. Load | 15. Earth |
| 8. Grid | |

Solar System Connection



Back Panel



Specification

MODEL	PH30-2048	PH30-2048 Plus	PH30-3048	PH30-4048
NOMINAL	48VDC			
Rated capacity	2500VA		3750VA	5000VA
Rated output power	2000W		3000W	4000W
Rated output voltage and frequency	230Vac / 50Hz			
Rated output current	8.7A		13A	17.4A
Output voltage precision	230Vac±1%			
Output frequency precision	50Hz±0.1%			
THD (Linear loads)	Off grid≤2%			
	Grid discharge ≤3%			
	Grid charge ≤3%			
Dynamic response speed (0→100%)	20ms			
Power factor	Grid discharge 99.9% & Grid charge 99.9%			
Overload capability	100% < load≤110%,30 minutes; 110% < load≤125%,1 minutes; 125% < load≤150%,30 seconds; load > 150%,10 seconds; Short circuit,5 seconds			
Grid / Off grid change time	< 10ms			
Output wave	sine wave			
Inverting efficiency 80% resistive loads	≥92%		≥93%	
AC input maximum current	17.4A		26A	34.8A
Acceptable input voltage range	Defaults 186Vac ~253Vac; Narrow 174Vac ~272Vac; Wide 95Vac ~272Vac			
Nominal frequency	50Hz / 60Hz			
Rated input voltage	48VDC			
Allowed input DC voltage range	40VDC ~ 62VDC			
Low voltage alarm	42VDC			
High voltage alarm	60VDC			
SOLAR CHARGER & AC CHARGER	PV Open Circuit Voltage 145VDC			
	Max Solar Charging Current	40A	60A	60A
	Max AC Charging Current	40A	60A	80A
DISPLAY & PROTECTION FUNCTION	LED indication Systematic operation, indication of charge and discharge, indication of fault			
	LCD display output voltage, output current, grid voltage, grid current, voltage of storage battery, load power, chart of capacity			
	Protection Function			
	Input LV protection Input OV protection Output overload protection Output Short Circuit Protection			
MECHANICAL SPECIFICATIONS	Mounting Wall mounted			
	W*H* D(mm)/Net Weight(kg)	337*462*183mm/25kg		370*462*183mm/35kg
	Communication terminal	RS485 / CAN bus		
OTHER	Operation Temperature Range -25°C ~ +50°C			
	Environmental Protection Rating Indoor(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)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)
2KW	200	1270	2541
	1000	208	488
	2000	82	203
3KW	300	847	1694
	1500	123	315
	3000	50	123
4KW	400	614	1281
	2000	89	205
	4000	38	89