Hybrid Solar Inverter

PV1800 Series (8KW-10KW)

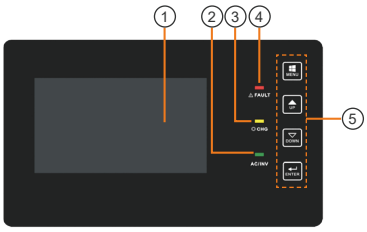
Features

- Pure sine wave inverter
- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Configurable AC/Solar Charger priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload/ Over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

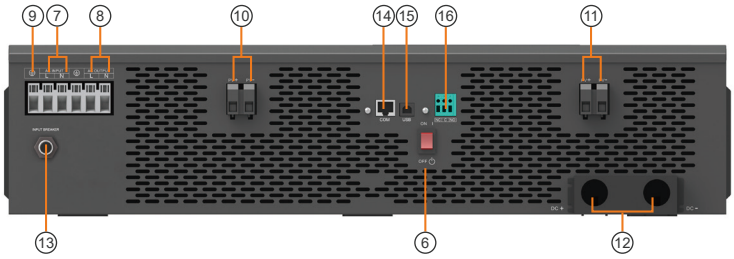
Introduction

This is a multi-function inverter/charger, combining functions of inverter, 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.

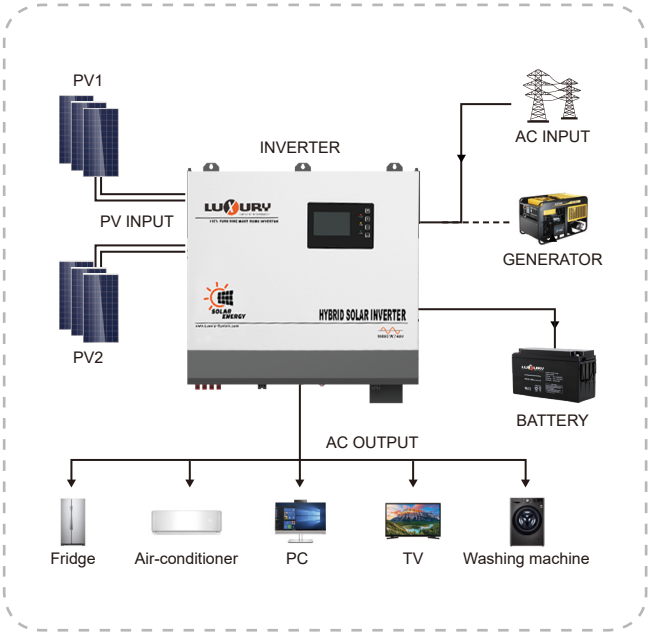
Back panel printing description



1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons



Solar system connection



6. Power On/Off Switch
7. AC Input
8. AC Output
9. Ground
10. PV1 Input
11. PV2 Input
12. Battery Input
13. Circuit breaker
14. RS-485 Communication port
15. USB
16. Dry Contact

Specification

MODEL		PV18-8048	PV18-10048
Nominal Battery System Voltage		48VDC	
INVERTER OUTPUT	Rated Power	8000W	10000W
	Surge Power	16000W	20000W
	Waveform	Pure Sine Wave	
	AC Voltage Regulation (Batt.Mode)	230VAC±5%	
	Output Frequency	60Hz or 50Hz	
	Inverter Efficiency(Peak)	93%	
	Transfer Time	10ms (UPS) 20ms (APL)	
AC INPUT	Nominal Input Voltage	230VAC	
	Max AC Input Voltage	300VAC	
	Selectable Voltage Range	170~280VAC (UPS) \ 90~280VAC (APL) \ 184~253VAC(VDE4105)	
	Frequency Range	50Hz \ 60Hz(Auto detection)	
BATTERY	Normal Voltage	48VDC	
SOLAR CHARGER & AC CHARGER	Charging Current	2-120A	
	Maximum PV Array Open Circuit Voltage	145VDC	
	PV Array Open Circuit Voltage	60-130VDC	
	Cold Start Voltage	46.0VDC	
	Solar Charging Current	160A	
	Default Charging Current	160A	
	Maximum Charge Current	280A	
	Charging Algorithm	3-step (Flooded Battery \ AGM \ GEL\ LEAD Battery), 4-step(LI)	
MECHANICAL SPECIFICATIONS	Machine Dimensions(W*H*D)(mm)	503*600*141.2	
	Net Weight(kg)	21.0	
OTHER	Safety Certification	CE	
	Operating Temperature	0°C~50°C	
	Storage Temperature	-15°C ~60°C	