


# Hybrid Solar Inverter

## PV1800 Series (8KW-10KW)



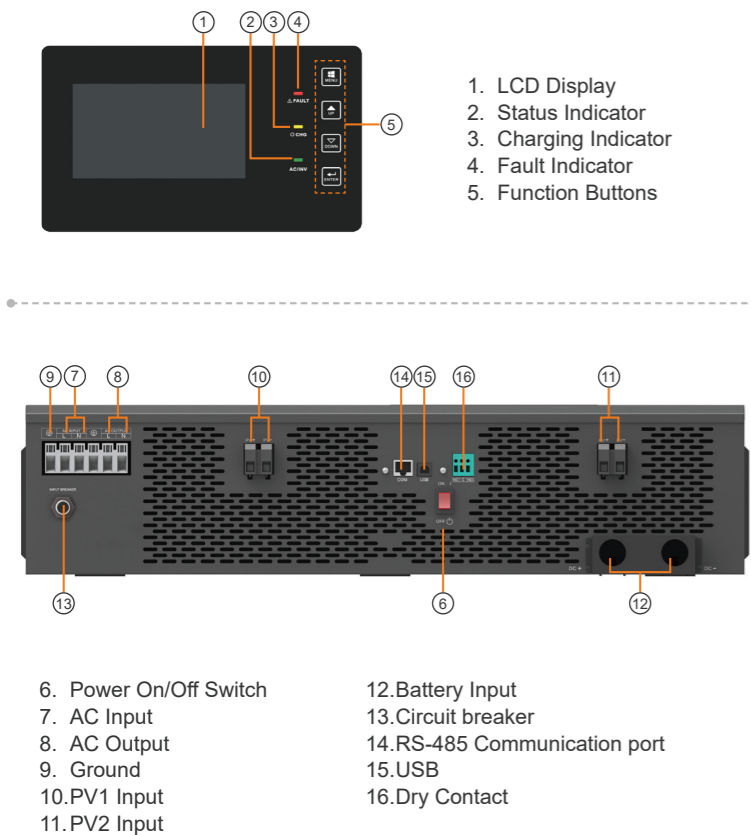
### Features

- 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

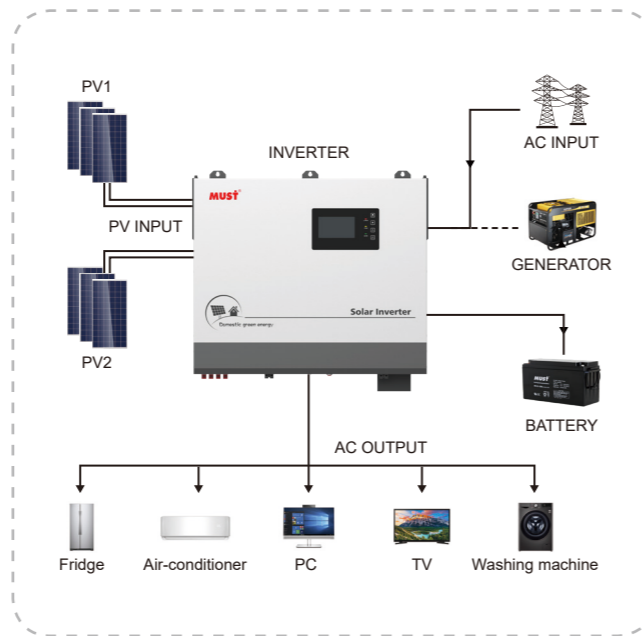
### Introduction

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



### Solar system connection



### 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	
MECHANICAL SPECIFICATIONS	Charging Algorithm	3-step (Flooded Battery \ AGM \ GEL \ LEAD Battery), 4-step(LI)	
	Machine Dimensions(W*H*D)(mm)	503*600*141.2	
OTHER	Net Weight(kg)	21.0	
	Safety Certification	CE	
	Operating Temperature	0°C~50°C	
Storage Temperature	-15°C ~60°C		