


# Low Frequency Off Grid Solar Inverter

## PV2000 PK Series (1KVA-2KVA)



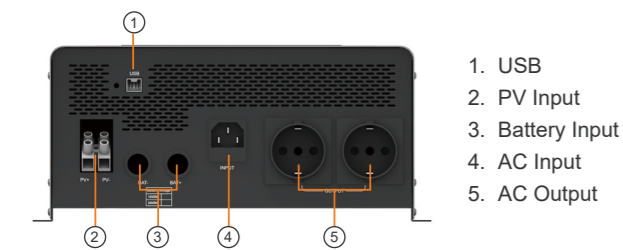
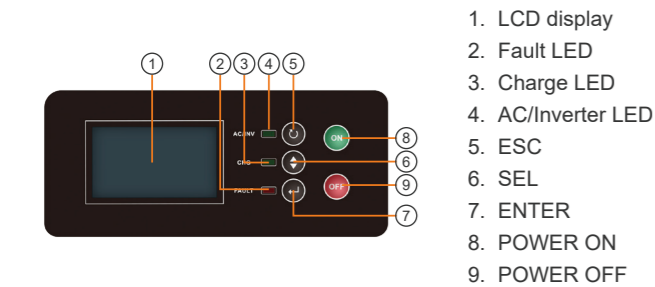
### Features

- Pure sine wave output
- Built-in 50A PWM solar charge controller
- Smart LCD setting ( frequency , charge voltage, charge current, etc).
- Overload and short-circuit protection
- Deep discharge protection
- Cold start function
- Support USB/RS232 monitoring function

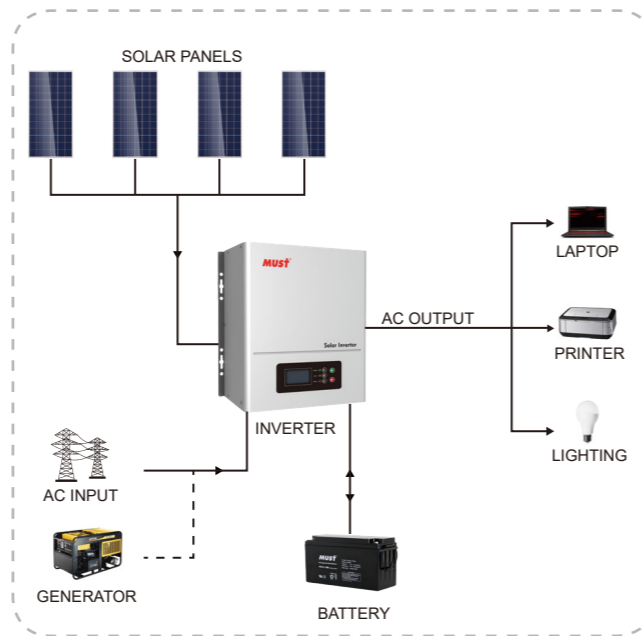
### Introduction

PV2000 PK built-in high efficiency solar controller. AC input voltage range for 140VAC-280VAC with regulated output (AVR) features, PV, AC function, A tracking feature such as power frequency. The output frequency can be set using the keys, AC /PV charging voltage, charge current, AC or PV priority mode, Battery under voltage shut-down point, and so many other functions.

### Back panel printing description



### Solar system connection



### Specification

MODEL	PV20-1012 PK	PV20-1512 PK	PV20-2024 PK	
Battery Input Voltage Rating	12VDC		24VDC	
INVERTER OUTPUT	Rated Power	1000VA	1500VA	
	Instantaneous Power Drawn	700W	900W	
	Output Waveform	Pure sine wave		
	Output Voltage	Inverter mode: 230VAC(±5% RMS), AVR mode: 200VAC-240VAC 220VAC(±5% RMS)		
	Output Power Factor	0.7	0.6	
	Output Frequency	50Hz/60Hz ±0.2 Hz		
	Inverting Efficiency (peak)	>85%		
	Mains Mode Efficiency	> 95%		
	Transfer Time	Typical 2~6ms 10ms(max)		
	AC INPUT	Input Voltage	220/230VAC	
Input Voltage Range		140~280VAC±5%		
Low Pressure Shutdown		140VAC±5%		
High Pressure Shutdown		280VAC±5%		
Low Frequency Shutdown		45±0.2Hz(50Hz)		
High Frequency Shutdown		55±0.2Hz(60Hz)		
Frequency Range		50Hz/60Hz ±0.2HZ		
BATTERY	Minimum Start Voltage	Battery under voltage shut-down point +0.5V	Battery under voltage shut-down point +1.0V	
	Low Battery Alarm	Battery under voltage shut-down point +0.5V	Battery under voltage shut-down point +1.0V	
	Low Battery Shutdown	(0.1V \ 10-12.0VDC mode) User set	(0.2V \ 20.0-24.0VDC mode) User set	
	Battery High Voltage Alarm	Average Charge Voltage+1V	Average Charge Voltage +2V	
AC CHARGER	Float Voltage	13.5 / 13.6 / 13.7VDC to set	27.0 27.2 27.4VDC to set	
	Average Charge Voltage	(0.1V each click ,13.8~14.5V mode) User set	(0.2V each click , 27.6~29V mode) User set	
	Maximum Charge Current	20A±2A	25A±2A	
BYPASS & PROTECTION	Input Frequency	50Hz \ 60Hz		
	Low Frequency Switching	45±1Hz		
	High Frequency Switching	65±1Hz		
	Overload Protection	110%~125%R load fault after 60s 125% ~150%R load fault after 3s >150%R load fault after 500ms		
	Output Short Circuit Protection	Yes		
	Bypass Circuit Breaker Insurance	10A		
	Maximum Current Bypass	7A	10A	
SOLAR CHARGER	Maximum PV Charge Current	50A±5A		
	Battery Voltage	12VDC	24VDC	
	Maximum PV Array Power	150W*5 solar panels		
	Maximum PV Array Open Circuit Voltage	55Vdc		
	Maximum Efficiency	> 95%		
	Standby Consumption	<2W		
MECHANICAL SPECIFICATIONS	Assembly	Wall mount		
	Dimension (W*H*D) (mm)	320*300*135		
	Net Weight KG	9.0	10.0	10.5
	Shipping Dimensions (mm)	400*335*195		
	Transport Weight KG	10.0	11.0	11.5
OTHER	Working Environment	0°C~40°C 0~90% Relative humidity (non-condensing)		
	Noise	Less than 60db		
	Display	LED + LCD		