

Low Frequency Power Inverter/Charger

EP2000 Pro Series (300W-1000W)



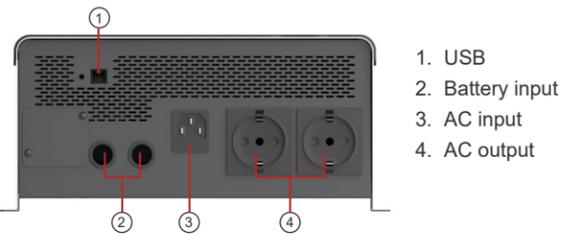
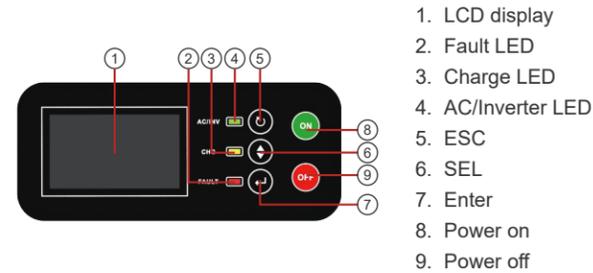
Features

- Rated power 300W to 1000W
- Pure sine wave output
- Smart LCD setting (frequency , charge voltage,charge current, etc).
- 3 steps charging algorithm
- Built in AVR function
- Overload and short-circuit protection
- Battery reverse polarity protection (Optional)
- Deep discharge protection
- Cold start function

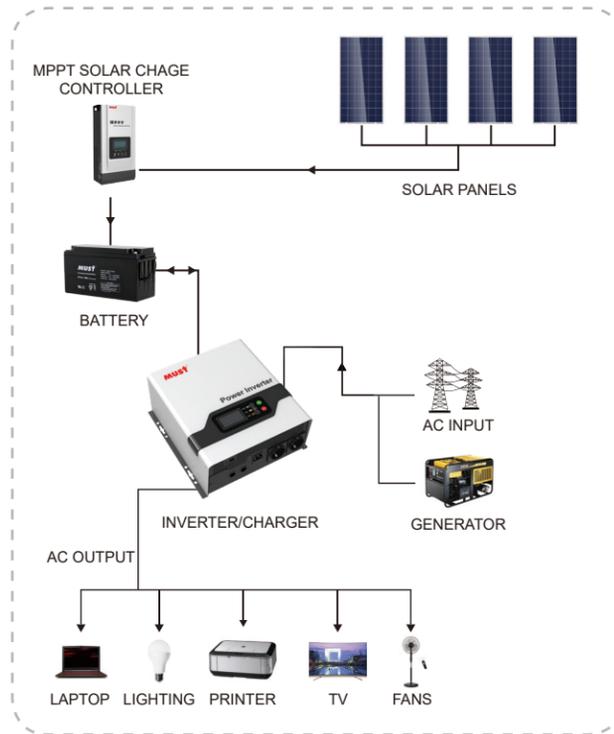
Introduction

EP2000 PRO series inverter is a cost effective, intelligent with UPS function. The comprehensive LCD offers user-configurable and easy-accessible button adjustment such as battery charge current, battery charge voltage, frequency, buzzer etc. It's perfect for the user who need a simple and economical inverter,with user-friendly installation and setting. Tower and rack design available for different choices.

Back panel printing description



Solar system connection



Specification

MODEL	EP20-0312 PRO	EP20-0412 PRO	EP20-0512 PRO	EP20-0612 PRO	EP20-0812 PRO	EP20-1012 PRO	EP20-0624 PRO	EP20-0824 PRO	EP20-1024 PRO		
Default Battery System Voltage	12VDC						24VDC				
INVERTER OUTPUT	Rated Power	300W	400W	500W	600W	800W	1000W	600W	800W	1000W	
	Surge Rating	900VA	1200VA	1500VA	1800VA	2400VA	3000VA	1800VA	2400VA	3000VA	
	Waveform	Pure sine wave									
	Voltage Regulation	Battery mode: 220 or 230VAC Line mode: 220~240VAC									
	Output Frequency	50Hz / 60Hz									
	Invert Frequency (Peak)	>75%						>81%			
	Bypass Efficiency	>95%									
	Output Transfer Time	Typical:6ms 10ms(max)									
	AC INPUT	Voltage	220 / 230 / 240VAC								
Selectable Voltage Range		140~280VAC ±5%									
Low Battery Alarm		140VAC ±5%									
Low Voltage Recover		150VAC ±5%									
High Battery Alarm		280VAC ±5%									
High Voltage Recover		270VAC ±5%									
Low Frequency Alarm		45 ±5Hz									
Low Frequency Recover		46 ±5Hz									
High Frequency Alarm		65 ±5Hz									
High Frequency Recover		64 ±5Hz									
Nominal Input Range		50Hz / 60Hz ±5Hz									
AC Auto Restart		YES									
BATTERY		Minimum Start Voltage	Low Battery Voltage Cutoff+0.5V						Low Battery Voltage Cutoff+0.5V		
	Low Battery Alarm	Low Battery Voltage Cutoff+0.5V						Low Battery Voltage Cutoff+1.0V			
	Min battery voltage for power on	Shutdown voltage +0.5V						Shutdown voltage +1V			
	Low Battery Cutoff	10-12.0VDC						20.0-24.0VDC			
	High Battery Alarm	(13.8-14.5V)+1V for 12VDC mode (*2 for 24VDC)									
AC CHARGE	Floating Voltage	13.5-14.5VDC						27-29VDC			
	Boost Voltage	13.8~14.5V						27.6~29V			
	Maximum Charge Current	300W 10A	400W 10A	500W 15A	600W 20A	800W 25A	1000W 30A	600W 10A	800W 15A	1000W 15A	
BYPASS & PROTECTION	Input Waveform	Pure sine wave									
	Input Frequency	50Hz or 60Hz									
	Overload Protection	>110%~125% Load fault after 60s; >125%~150% Load fault after 3s; >150% Load fault after 500ms									
	Over Temperature Protection	≥90°C									
	Bypass Output Protection	10A 250VAC									
	Output Circuit Protection	YES									
	Battery Reverse Protection	Optional									
	Battery Low Voltage Protection	YES									
	Battery High Voltage Protection	YES									
Bypass Breaker Rating	10A										
Maximum Bypass Current	10A										
MECHANICAL SPECIFICATION	Dimensions(W*H*D) (mm)	391*325*187									
	(N.W)kg	300W 6.0	400W 8.2	500W 9.5	600W 10.6	800W 12.6	1000W 13.2	600W 10.6	800W 12.6	1000W 13.2	
OTHER	Operating Temperature	0°C ~40°C 0~90% relative humidity (non-condensing)									
	Storage Temperature	-15°C to 55°C									
	Altitude	≤1000M									
	Audible Noise	≤60dB									
	Display	LED+LCD									
	Cooling Mode	Fan cooling									
	Fan Starting	>45°C starting, <30°C Closing									
Communication	USB										