

Low Frequency Power Inverter/Charger

EP3000 PLUS Series (1KW-6KW)



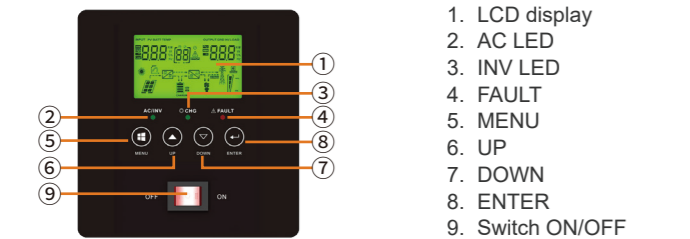
Features

- Pure sine wave output
- Friendly user interface
- 3 Steps charging
- MFD (multi-function display)
- Overload and short-circuit protection
- Set charging voltage/charging current.
- Battery low voltage shutdown point can be set to 10/10.5/11V
- Power-save mode
- Set utility priority/ Battery priority
- Set utility input wide/narrow range
- Inverter voltage can be set to 220V/230V/240V
- Inverter frequency can be set to 50/60Hz
- Set utility charging on/off switch

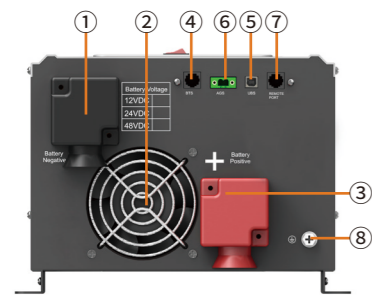
Introduction

EP3000 PLUS series is a very economical pure sine wave inverter, with AC charger from 20A to 60A; Solar/AC priority is configurable, when setting solar priority, solar will charge batteries as first priority, and AC can also charge batteries when solar charger current is too lower . With pure copper transformer, it enables inverter to operate with all kinds of home appliances.

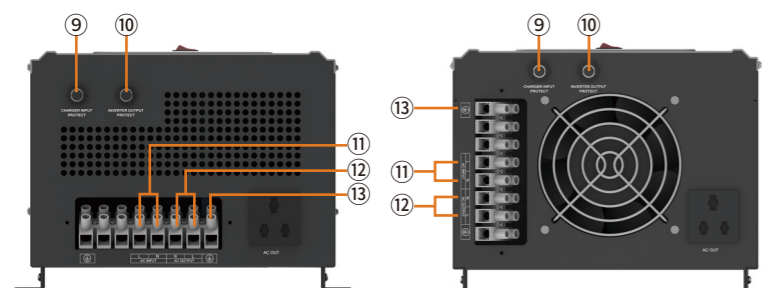
Back panel printing description



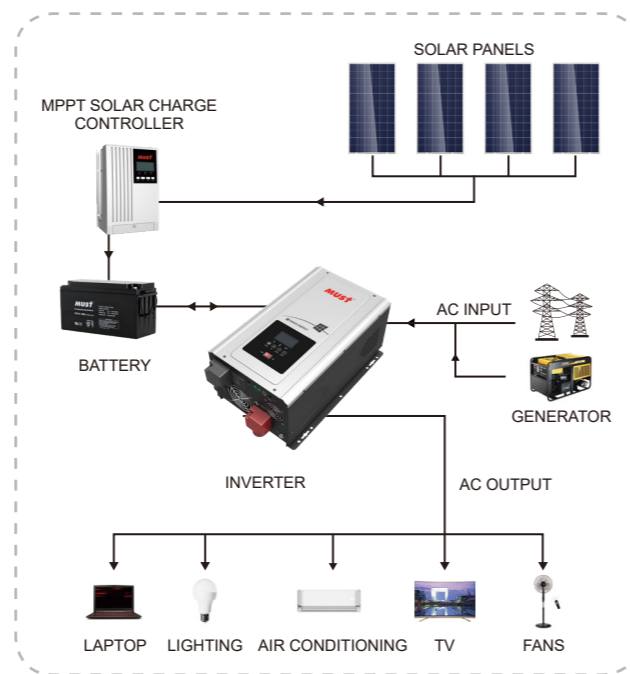
1. LCD display
2. AC LED
3. INV LED
4. FAULT
5. MENU
6. UP
7. DOWN
8. ENTER
9. Switch ON/OFF



1. BAT-
2. FAN
3. BAT+
4. BTS
5. USB
6. AGS
7. Remote port
8. GND
9. Inverter output protect
10. Charger input protect
11. AC output
12. AC input
13. GND



Solar system connection



Specification

MODEL		EP30-1KW PLUS		EP30-1.5KW PLUS		EP30-2KW PLUS		EP30-3KW PLUS		EP30-4KW PLUS		EP30-5KW PLUS		EP30-6KW PLUS			
Nominal Battery System Voltage		12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC	24VDC	48VDC	48VDC		48VDC			
INVERTER OUTPUT	Rated Power	1KW		1.5KW		2KW		3KW		4KW		5KW		6KW			
	Surge Rating	3000VA		4500VA		6000VA		9000VA		12000VA		15000VA		18000VA			
	Capable Of Starting Electric Motor	1HP		1HP		1HP		2HP		2HP		3HP		3HP			
	Waveform	Pure sine wave \ same as input (bypass mode)															
	Nominal Output Voltage RMS	220V \ 230V \ 240VAC ±10% (RMS)															
	Output Frequency	50Hz \ 60Hz ±0.3Hz															
	Inverter Efficiency (Peak)	>88%															
	Line Mode Efficiency	>95%															
	Power Factor	1.0															
	Typical Transfer Time	10ms(max)															
AC INPUT	Voltage	230VAC															
	Selectable Voltage Range	96~132VAC 155~280VAC(For personal computers)															
	Frequency Range	50Hz \ 60Hz(Auto sensing) 40~80Hz															
BATTERY	Minimum Start Voltage	(10V \ 10.5V \ 11V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	Low Battery Alarm	(10V \ 10.5V \ 11V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	Low Battery Cut Off	10V \ 10.5V \ 11V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	High Voltage Alarm	(13.8-14.5V)+1V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	High Battery Voltage Recover	(13.8-14.5V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)															
	Idle Consumption-Search Mode	Load ≤100±20W(220V)															
CHARGER	Output Voltage	Depends on battery type															
	Charge AC Input Breaker Rating	230V		1-1.5K/10A				2-3K/30A				4-6K/40A					
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)															
	Maximum Charge Current	30A	20A	45A	25A	60A	30A	40A	20A	60A	30A	35A	40A	35A	40A		
BYPASS & PROTECTION	Input Voltage Waveform	Sine wave (grid or generator)															
	Nominal Input Frequency	50Hz or 60Hz															
	Overload Protection (SMPS Load)	Circuit breaker															
	Output Short Circuit Protection	Circuit breaker															
	Bypass Breaker Rating	230V		1-3K/30A				4-6K/40A				4-6K/40A					
	Max Bypass Current	30A															
MECHANICAL SPECIFICATIONS	Mounting	Wall Mount															
	Dimensions (W*H*D) (mm)	423*247*197								597*247*197							
	Net Weight (Solar CHG)(kg)	16.5	17	21.1	20	24.5	24.8	38.2	35.8	45	45	38.2	35.8	45	45		
	Shipping Dimensions (W*H*D) (mm)	585*387*322								758*387*322							
	Shipping Weight (Solar CHG)(kg)	19.3	20	24.1	22.8	27.5	27.5	42.3	40	49.3	49.3	42.3	40	49.3	49.3		
OTHER	Operation Temperature Range	0°C to 60°C															
	Storage Temperature	-15°C to 70°C															
	Audible Noise	60dB MAX															
	Display	LED+LCD															
	Standard Warranty	1 year, 2 or 3 years optional (IP20)															