

# Low Frequency Power Inverter/Charger

## EP3000 LV2 Series (1KW-6KW)



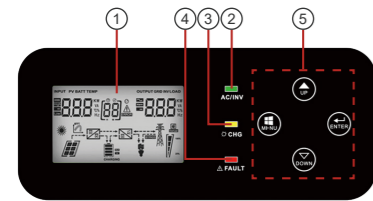
### Features

- 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 110V/115V/120V
- Inverter frequency can be set to 50/60Hz
- Set utility charging on/off switch

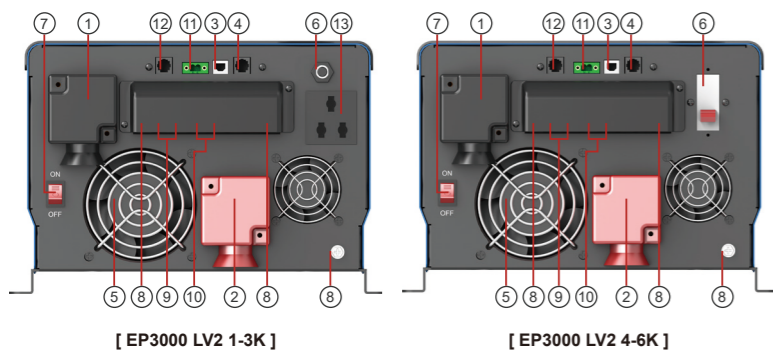
### Introduction

EP3000 LV2 series is very economical pure sine wave inverter, special in north & south america market, and AC charger from 35A to 70A .Solar/AC priority configurable . When solar priority , in case its charge current lower than inverter's charger from AC , AC will supplement to charge the batteries , to optimize charging. With low frequency transformer , it enable the inverter to operate with all kinds of home appliances.

### Back panel printing description

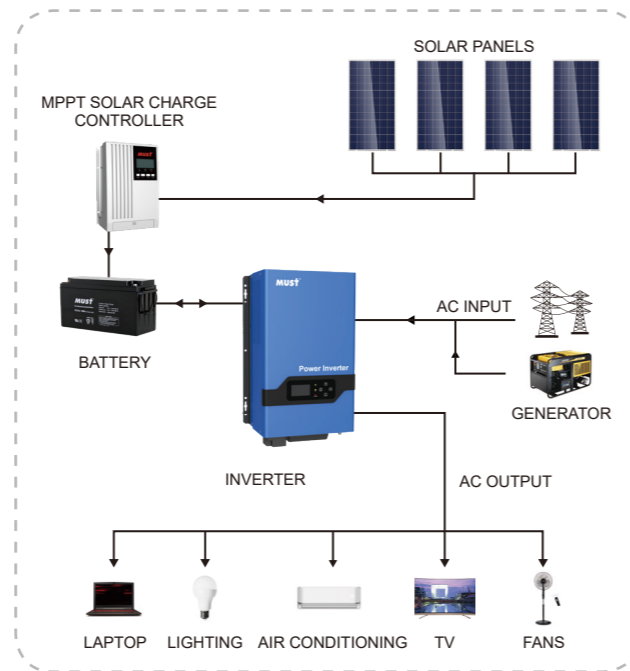


1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons



1. BAT -
2. BAT +
3. USB
4. Remote port
5. FAN
6. Charger input protect
7. Power on/off switch
8. GND
9. AC input
- 10.AC output
- 11.AGS
- 12.BTS
- 13.AC Output 10A(MAX)
- 14.PV input

### Solar system connection



### Specification

MODEL	EP30-1KW LV2		EP30-1.5KW LV2		EP30-2KW LV2		EP30-3KW LV2		EP30-4KW LV2		EP30-5KW LV2		EP30-6KW LV2		
	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC	24VDC	48VDC	48VDC	48VDC	48VDC	48VDC	
Nominal Battery System Voltage	12VDC 24VDC		12VDC 24VDC		12VDC 24VDC		24VDC 48VDC		24VDC 48VDC		48VDC		48VDC		
INVERTER OUTPUT	Rated Power	1.0KW		1.5KW		2KW		3KW		4KW		5KW		6KW	
	Surge Rating	3000VA		4500VA		6000VA		9000VA		12000VA		15000VA		18000VA	
	Capable Of Starting Electric Motor	1HP				2HP				3HP					
	Waveform	Pure sine wave/ same as input (bypass mode)													
	Nominal Output Voltage RMS	110V/115V/120VAC ±10% (RMS)													
	Output Frequency	50Hz/60Hz±0.3 Hz													
	Inverter Efficiency(Peak)	>88%													
	Line Mode Efficiency	>95%													
	Power Factor	1.0													
	Typical Transfer Time	10ms(max)													
AC INPUT	Voltage	120VAC													
	Selectable Voltage Range	80~135VAC(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 ≤50±20W(120V)													
CHARGER	Output Voltage	Depends on battery type													
	Charger AC Input Breaker Rating	1K/12A		1.5K/16A		2K/30A		3K/40A		4-6KW/63A					
	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			
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	10A		30A				40A							
Max Bypass Current	30Amp						40Amp								
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					
	Shipping Dimensions(W*H*D) (mm)	585*350*310										758*387*322			
	Shipping Weight (Solar CHG) (kg)	19.3	20	24.1	22.8	27.5	27.5	42.3	40	49.3					
OTHER	Operation Temperature Range	0°C to 40°C													
	Storage Temperature	-15°C to 60°C													
	Audible Noise	60dB MAX													
	Display	LED+LCD													
	Standard Warranty	1 year													