

## EP3000 Series (1~6KW) Low Frequency Pure Sine Wave Inverter

### Feature:

- 35A ~70A automatic 3-stage battery charger
- Charge current is Adjustable(25% ,50% ,75% ,100%)
- Inbuilt pure copper transformer
- High / Low battery voltage, overload, over temperature protection
- Battery/AC priority(option)
- RS232/Remote switch(option)
- Generator compatible

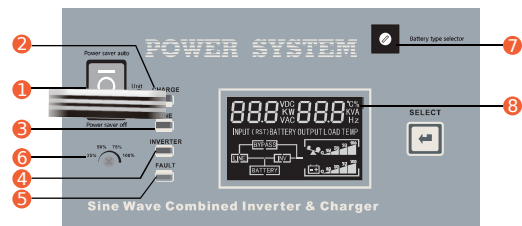
### Back Panel



### Introduction:

Low frequency pure sine wave combined inverter & charger EP3000 Series 1-6kw: Quiet, high efficiency operation front panel LED/LCD indicators and adjustable switch selectors Selectable settings for flooded lead acid, gel, absorbed glass mat (AGM) batteries. Mainly for home and office appliance such as TV, refrigerator, fan, lights, computer etc.

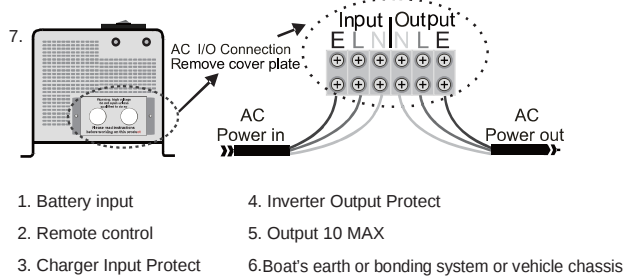
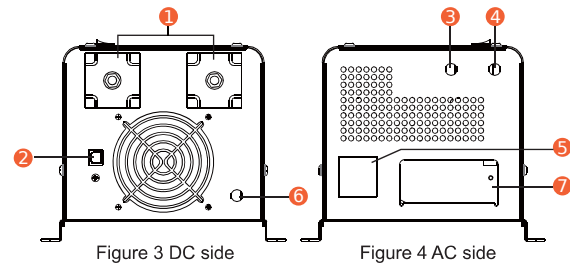
### LCD Display Information



1. Switch
  - Power saver auto: Power on with saver mode (power saver  $\approx$ 25W)
  - Unit Off: Power totally off (if there is AC power, inverter have charger function)
  - Power saver off: Power on without saver mode

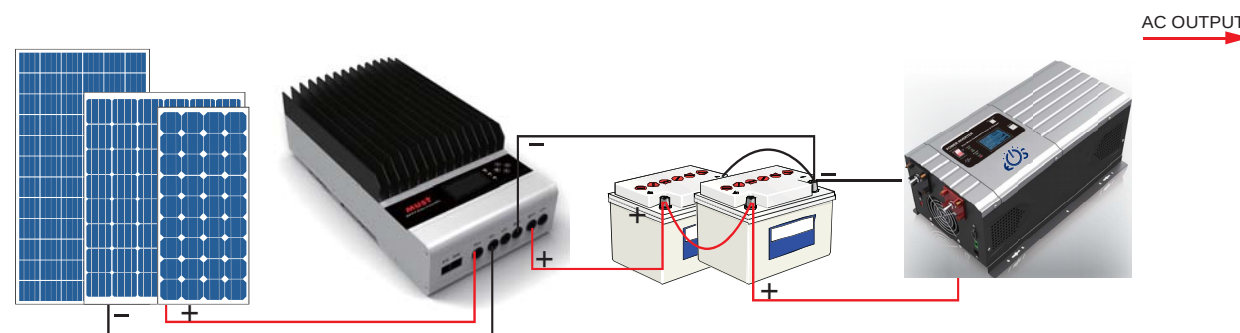
2. AC charge
3. AC power on
4. inverter mode
5. Fault
6. Charge current adjustable: 25%, 50%, 75%, 100%.

7. Battery type selector
8. LCD display



1. Battery input
2. Remote control
3. Charger Input Protect
4. Inverter Output Protect
5. Output 10 MAX
6. Boat's earth or bonding system or vehicle chassis

### Inverter Connection



### Specification

MODEL	EP30-1KW	EP30-1.5KW	EP30-2KW	EP30-3KW	EP30-4KW	EP30-5KW	EP30-6KW
<b>Nominal Battery System Voltage</b>	12V   24V	12V   24V	12V   24V	12V   24V   48V	24V   48V	24V   48V	24V   48V
<b>INVERTER OUTPUT</b>	Rated Power: 1000W, 1500W, 2000W, 3000W, 4000W, 5000W, 6000W Surge Rating (20ms): 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: 100V/110V/120VAC or 220V/230V/240VAC, 220V/230V/240VAC Output Voltage Regulation: +/-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)						
<b>AC INPUT</b>	Voltage: 120VAC/230VAC Selectable Voltage Range: 96-132VAC or 155-280VAC(For Personal Computers), 155-280VAC(For Computers) Frequency Range: 50Hz/60Hz (Auto sensing) 40-80Hz						
<b>BATTERY</b>	Minimum Start Voltage: 10.0VDC /10.5VDC for 12VDC mode (*2 for 24VDC, *4 for 48VDC) Low Battery Alarm: 10.5VDC +/-0.3V for 12VDC mode (*2 for 24VDC, *4 for 48VDC) Low Battery Cutoff: 10.0VDC +/-0.3V for 12VDC mode (*2 for 24VDC, *4 for 48VDC) High Voltage Alarm: 16.0VDC +/-0.3V for 12VDC mode (*2 for 24VDC, *4 for 48VDC) High Battery Voltage Recover: 15.5VDC +/-0.3V for 12VDC mode (*2 for 24VDC, *4 for 48VDC) Idle Consumption-Search Mode: <25W when power saver on						
<b>CHARGER</b>	Output Voltage: Depends on battery type Charger AC Input Breaker Rating: 10A, 30A, 40A Overcharge Protection S.D.: 15.7VDC for 12VDC mode (*2 for 24VDC, *4 for 48VDC) Maximum Charge Current: 35A, 20A, 45A, 25A, 65A, 35A, 75A, 45A, 30A, 65A, 35A, 70A, 40A, 75A, 50A						
<b>BYPASS &amp; PROTECTION</b>	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: 10Amp, 30Amp, 40Amp						
<b>MECHANICAL SPECIFICATIONS</b>	Mounting: Wall mount Dimensions (W*H*D): 423*224*180, 597*224*181 Net Weight (kg): 15.7, 18, 16.2, 15.5, 20.3, 19.1, 25.3, 23.7, 24, 37.2, 34.8, 44.15, 44, 44.15, 44 Shipping Dimensions(W*H*D): 570*315*300, 755*319*288 Shipping Weight (kg): 18.3, 20.6, 19, 18.1, 23.1, 21.8, 28.1, 26.5, 26.5, 40.8, 38.4, 48, 47.8, 48, 47.8						
<b>OTHER</b>	Operation Temperature Range: 0°C to 40°C Storage Temperature: -15°C to 60°C Audible Noise: 60dB MAX Display: LED+LCD						

\* Product specifications are subject to change without further notice.

### Approximate Back-up Time Table

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
1000	0.4806	1.602	3.50304	7.6896	
2000	0.2136	0.4806	1.602	3.50304	7.6896
3000	0.1068	0.2848	0.8544	2.136	4.8416
4000		0.2136	0.4806	1.602	3.50304
5000		0.12816	0.34176	1.19616	2.73408
6000		0.1068	0.2848	0.8544	2.136