

## EP3000 LV Series Low Frequency Power Inverter

### Feature:

- Rated power 1kw to 4kw
- Pure sine wave output
- 3 times surge power
- Wide frequency 40Hz-80Hz
- Overload and short circuit protection
- Built-in pure copper UI transformer
- Smart battery charger designed for optimized battery performance
- Cold start function
- Support RS232 monitoring function with free CD
- Support BTS and AGS function
- DIP Switch offer customized performance
- Remote Control Panel (optional)
- Solar priority function
- Compatible to generator

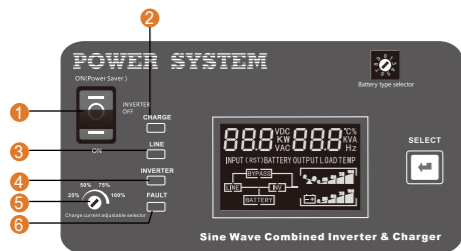
### Back Panel



### Introduction:

EP3000 LV series is a very economical pure sine wave inverter with AC charger from 35A to 70A .Solar /AC priority configurable . When solar priority , When solar charging current is lower then utility, the AC will supply to charge batteries, to optimize charging the. With pure copper transformer inside, which let it be suitable for all kinds of home appliance.

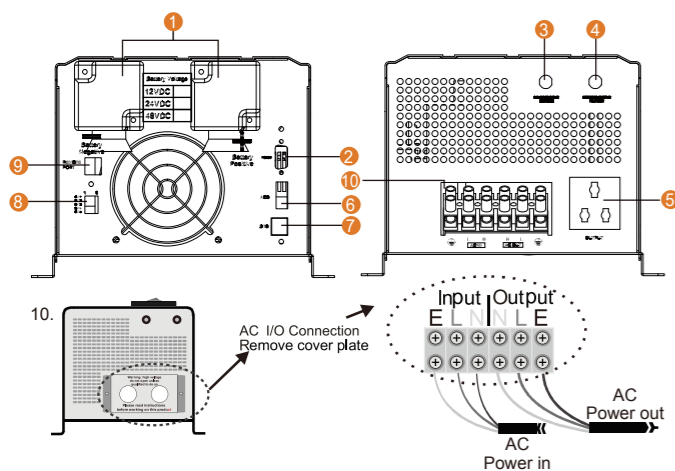
### LCD/LED Display Information



1. Switch	ON(Power Saver): Power on with saver mode(power saver ≤ 25W)
	INVERTER OFF: Power totally off(If there is AC power,inverter have charger function)
	ON: Power on without saver mode

- |                              |                                 |                              |                                 |
|------------------------------|---------------------------------|------------------------------|---------------------------------|
| 2. CHARGE                    | AC Charge                       | 4. INVERTER                  | Inverter mode                   |
| 3. LINE                      | AC power on                     | 5. FAULT                     | Check inverter                  |
| 6. Charge current adjustable | 25%,50%,<br>75%,100%.(Optional) | 6. Charge current adjustable | 25%,50%,<br>75%,100%.(Optional) |

### Solar System Connection



- |                             |                         |
|-----------------------------|-------------------------|
| 1. Battery input            | 6. AGS                  |
| 2. RS232 communication port | 7. BTS                  |
| 3. Charger Input Protect    | 8. DIP Switch (SW1-SW5) |
| 4. Inverter Output Protect  | 9. Remote control       |
| 5. Output 10A MAX           |                         |



### Specification

MODEL	EP30-1012 LV	EP30-1024 LV	EP30-1512 LV	EP30-1524 LV	EP30-2012 LV	EP30-2024 LV	EP30-3012LV	EP30-3024 LV	EP30-3048 LV	EP30-4024 LV	EP30-4048 LV		
<b>Nominal Battery System Voltage</b>	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC	24VDC	48VDC		
<b>INVERTER OUTPUT</b>	Rated Power	1.0KW	1.5KW	2KW	3KW	4KW							
	Surge Rating (20ms)	3.0KW	4.5KW	6.0KW	9.0KW	12KW							
	Capable Of Starting Electric Motor	1HP			2HP								
	Waveform	Pure sine wave/ same as input (bypass mode)											
	Nominal Output Voltage RMS	100V/110V/120VAC (±10% RMS)											
	Output Frequency	50Hz/60Hz±0.3 Hz											
<b>AC INPUT</b>	Inverter Efficiency(Peak)	>88%											
	Line Mode Efficiency	>95%											
	Power Factor	1.0											
	Typical Transfer Time	10ms(max)											
<b>BATTERY</b>	Voltage	120VAC											
	Selectable Voltage Range	80~135VAC(For Personal Computers)											
	Frequency Range	50Hz/60Hz (Auto sensing) 40~80Hz											
<b>CHARGER</b>	Minimum Start Voltage	10.0VDC /10.5VDC for12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	Low Battery Alarm	10.5VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	Low Battery Cut off	10.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	High Voltage Alarm	16.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)											
	High Battery Voltage Recover	15.5VDC ±0.3V for12VDC mode V											
	Idle Consumption-Search Mode	<25W when power saver on											
<b>PROTECTION</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 mode, *4 for 48VDC mode)											
	Maximum Charge Current	35A	20A	45A	25A	65A	35A	75A	45A	30A	65A	35A	
<b>MECHANICAL SPECIFICATIONS</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						
<b>OTHER</b>	Max Bypass Current	30Amp				40Amp							
	Mounting	Wall Mount											
	Dimensions (W*H*D)	426*206*178 mm										601*206*178mm	
	Net Weight (Solar CHG) kg	16.5	17	21.1	20	26	24.5	24.8	38.2	35.8			
Shipping Dimensions(W*H*D)	750*335*300mm												
Shipping Weight (Solar CHG) kg	19.3	20	24.1	22.8	29.1	27.5	27.5	42.3	40				
<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											
Standard Warranty	1 year												

\* 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