

LOW FREQUENCY POWER INVERTER/CHARGER

EP3000 LV2 Series

1~6KW | AC120V | WIFI | BAT-CAN

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.

- 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 10/10.5/11/11.5/12V
- 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
- Acid or Lithium Select
- WIFI monitoring function (optional)
- With BMS lithium battery communication function (CAN port)

Back panel description

● 1~3KW

1. BAT -

2. BAT +

3. GND

4. AC input

5. AC output

6. AC input protect

7. AC Output 10A(MAX)

8. Remote port

9. BAT CAN

10. AGS

● 4~6KW

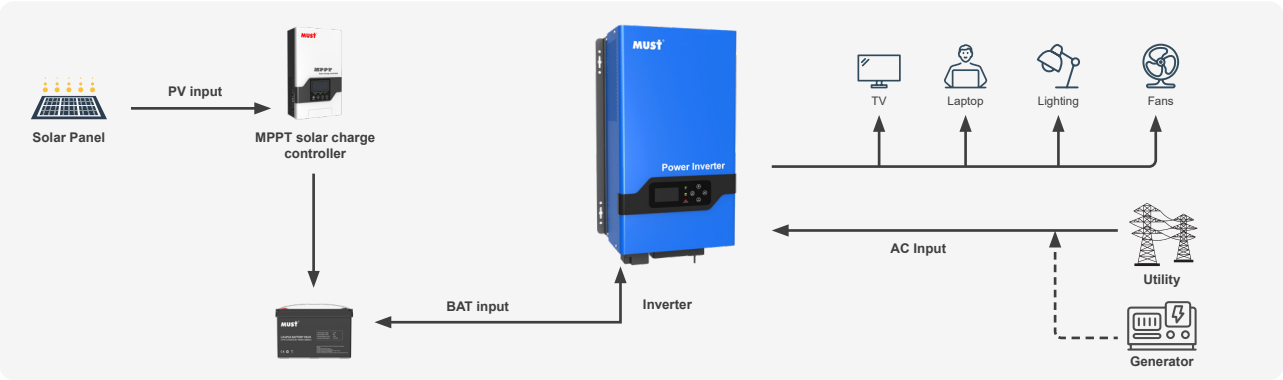
11. USB

12. WiFi

13. Power on/off switch

14. FAN

Solar system connection



MODEL	EP30-1012 LV2	EP30-1024 LV2	EP30-1512 LV2	EP30-1524 LV2	EP30-2012 LV2	EP30-2024 LV2	EP30-3024 LV2	EP30-3048 LV2	EP30-4024 LV2	EP30-4048 LV2	EP30-5048 LV2	EP30-6048 LV2
Nominal Battery System Voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC	24VDC	48VDC	48VDC	48VDC
INVERTER OUTPUT												
Reted 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)											
Overload	100% < Load < 110% (alarm 5min then stop output and fault code 07) 110% < Load < 125% (alarm 60s then stop output and fault code 07) Load > 125% (alarm 10s then stop output and fault code 07)											
AC INPUT												
Voltage	120VAC											
Selectable Voltage Range	75~135VAC(For Personal Computers)											
Frequency Range	50Hz/60Hz (Auto sensing) 40~80Hz											
BATTERY												
Minimum Start Voltage	(10V/ 10.5V/ 11V/ 11.5V/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
Low Battery Alarm	(10V/ 10.5V/ 11V/ 11.5V/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
Low Battery Cut off	10V/ 10.5V/ 11V/ 11.5V/ 12V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
High Voltage Alarm	(12-14.5V)+1V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
High Battery Voltage Recover	(12-14.5V)+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/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											
AC Input Breaker	30A						40A		50A / 63A			
MECHANICAL SPECIFICATIONS												
Mounting	Wall Mount											
Machine Dimension (W*H*D)(mm)	303*493*200								305*531*202			
Package Dimension (W*H*D)(mm)	615*319*400								686*319*400			
N.W(kg)	/											
G.W(kg)	/											
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	2 years											
CERTIFICATION & STANDARDS												

*The technical specifications of this document are subject to change without any notice