

LOW FREQUENCY POWER INVERTER

EP3000 PLUS Series

1~6kW | 230V | WIFI | BMS

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.



- 3 Steps charging
- Overload and short-circuit protection
- Set charging voltage/charging current.
- Battery low voltage shutdown point can be set to 10/10.5/11/11.5V/ 12V
- Power-save mode
- Set utility priority/ Battery priority
- Set utility input wide/narrow range
- Inverter voltage can be set to 220V:220V/230V/240V
- Inverter frequency can be set to 50/60Hz
- Set utility charging on/off switch
- Acid or Lituim select
- WIFI remote monitoring (optional)
- With BMS lithium battery communication function (CAN port)

Back panel description

1~3K

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

4~6K

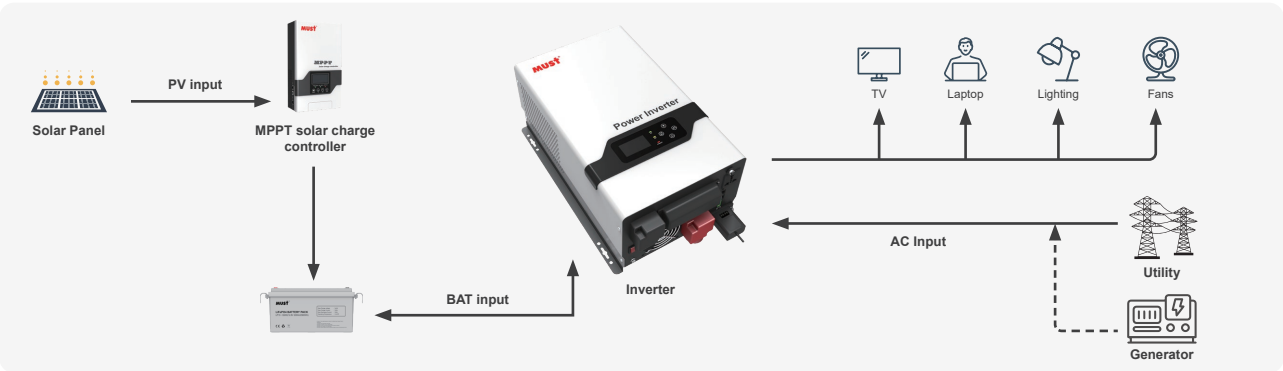
11. USB port

12. WiFi port

13. Power on/off switch

14. FAN

Solar system connection



MODEL	EP30-1012 PLUS	EP30-1024 PLUS	EP30-1512 PLUS	EP30-1524 PLUS	EP30-2012 PLUS	EP30-2024 PLUS	EP30-3024 PLUS	EP30-3048 PLUS	EP30-4024 PLUS	EP30-4048 PLUS	EP30-5048 PLUS	EP30-6048 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				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)											
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	230VAC											
Selectable Voltage Range	155~265VAC(For personal computers)											
Frequency Range	50Hz / 60Hz(Auto sensing) 40~80Hz											
BATTERY												
Minimum Start Voltage	(10V/ 10.5V/ 11V/ 11.5/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
Low Battery Voltage Alarm	(10V/ 10.5V/ 11V/ 11.5V/ 12V)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
Low Battery Voltage Cut Off	10V/ 10.5V/ 11V/ 11.5V/ 12V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)											
High Battery 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)											
Energy Saving Mode	Load ≤100±20W(220V)											
CHARGER												
Output Voltage	Depends on battery type											
Charge AC Input Breaker Rating (230V)	1-3K/30A								4-6K/50A			
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	1-3K/30A								4-6K/50A			
MECHANICAL SPECIFICATIONS												
Mounting	Wall Mount											
Machine Dimension (W*H*D)(mm)	303*493*200mm								305*531*202mm			
Package Dimension (W*H*D)(mm)	615*400*319mm								686*400*319mm			
N.W(kg)	14.8kg	15kg	18.8kg	17.1kg	19.5kg	18.6kg	20.3kg	20.1kg	31kg	29.5kg	30.9kg	34.5kg
G.W(kg)	16.3kg	16.5kg	20.3kg	18.6kg	21kg	20.1kg	21.8kg	21.6kg	32.5kg	31kg	32.4kg	36kg
OTHER												
Operating 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, 2 or 3 years optional (IP20)											
CERTIFICATION & STANDARDS												

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