

# Low Frequency Power Inverter/Charger

## AM24 Series (2200VA-3000VA)



### 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 220V/230V/240V
- Inverter frequency can be set to 50/60Hz
- Set utility charging on/off switch

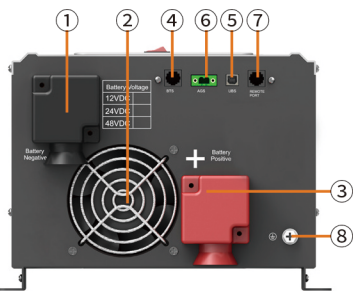
### Introduction

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.

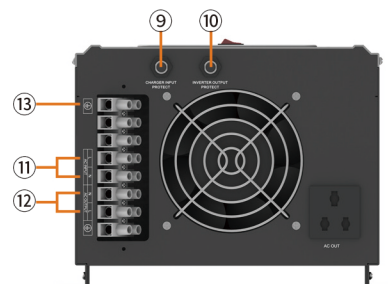
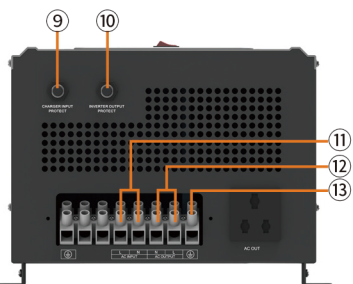
### Back panel printing description



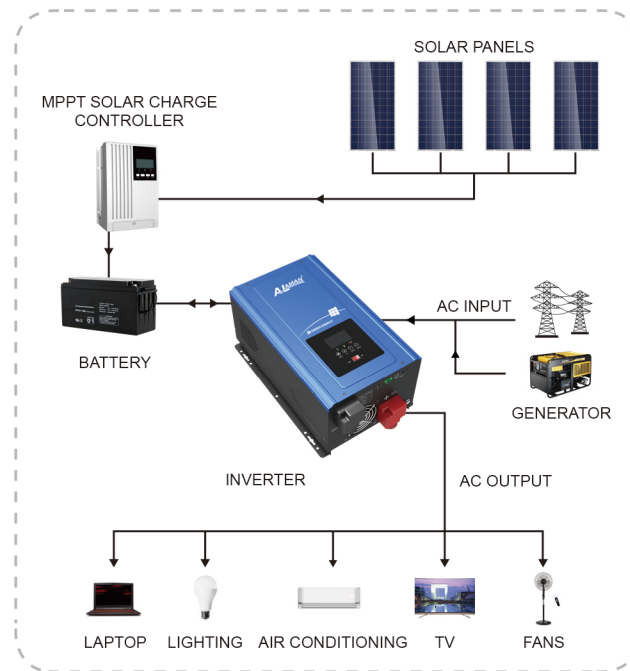
1. LCD display
2. AC LED
3. INV LED
4. FAULT
5. MENU
6. UP
7. DOWN
8. ENTER
9. Switch ON/OFF



1. BAT-
2. FAN
3. BAT+
4. BTS
5. USB
6. AGS
7. Remote port
8. GND
9. Inverter output protect
10. Charger input protect
11. AC output
12. AC input
13. GND



### Solar system connection



### Specification

MODEL		AM24-2200 PRO	AM24-3000 PRO
Nominal Battery System Voltage		24VDC	24VDC
INVERTER OUTPUT	Rated Power	2200VA/1.5KW	3000VA/2KW
	Surge Rating	4500VA	6000VA
	Capable Of Starting Electric Motor	1HP	1HP
	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)	
AC INPUT	Voltage	230VAC	
	Selectable Voltage Range	96~132VAC 155~280VAC(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 ≤100±20W(220V)	
CHARGER	Output Voltage	Depends on battery type	
	Charge AC Input Breaker Rating	230V	1-1.5K/10A
	Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)	
	Maximum Charge Current	25A	30A
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	230V	1-3K/30A
	Max Bypass Current	30A	
MECHANICAL SPECIFICATIONS	Mounting	Wall Mount	
	Dimensions (W*H*D) (mm)	423*247*197	
	Net Weight (Solar CHG)(kg)	17	20
	Shipping Dimensions (W*H*D) (mm)	585*387*322	
	Shipping Weight (Solar CHG)(kg)	20	22.8
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, 2 or 3 years optional (IP20)	