



ALAMAN[®]



Inverter/Charger
EP1800



EP1800 SERIES (2KVA-5KVA)

High Frequency Pure Sine Wave Inverter

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High Frequency Pure Sine Wave Inverter



(4KVA-5KVA)



(2KVA-3KVA)

INTRODUCTION

This is a multi-function inverter, combining function of battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, acceptable input voltage based on different applications.

FEATURES

- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Combining solar system, AC utility, and battery power source to supply continuous power
- Multiple operations: basic Grid-tie, (for 4KVA/5KVA model) Off-Grid, Grid-Interactive
- Parallel operation with up to 3 units (Available for 4KVA/5KVA only)
- Overload, Short circuit and Deep discharge protection Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI remote monitoring (optional)
- Compatible to generator



Rated power
2-5KVA



Battery DC voltage
24V, 48V



Wide AC input range
170-280Vac / 90-280Vac



Wide frequency
40HZ-65HZ



3 times surge power
based on
capacity 2-5KVA



Battery smart
charge design



Multi protection



WIFI FUNCTIONS

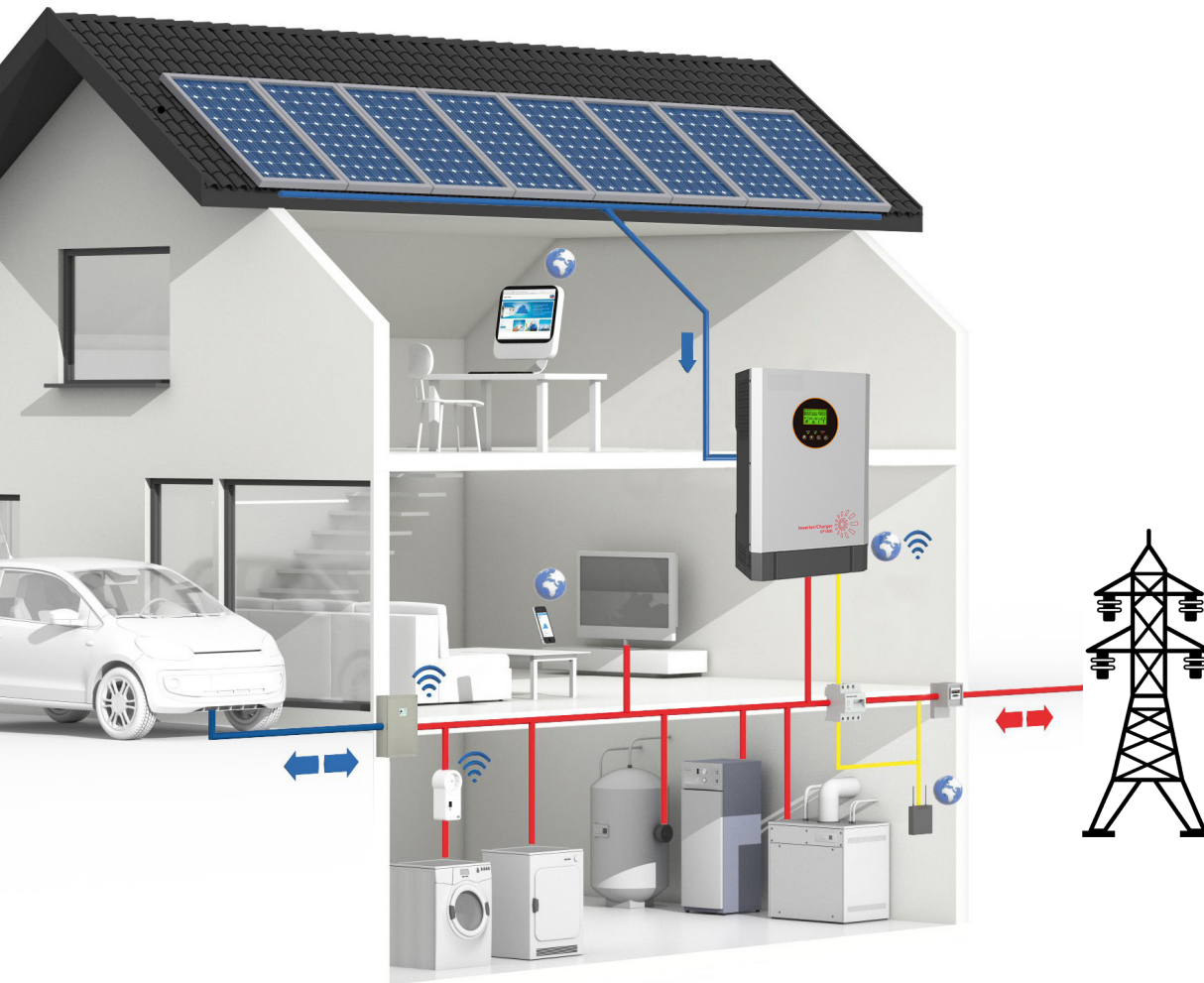
You can download this app on your cell phone and monitor the whole system, you will know how much electricity the system generate and sell to utility.

INVERTER SYSTEM CONNECTION

EP1800 inverter can work with batteries as back-up power system for all kinds of load. It also can be connected with extra solar charge controllers and solar panels as a complete solar system, which take full use of sunshine and save electricity bill for you. This kind of solar power inverter systems are widely used for home, office, factory, farm and shops etc.

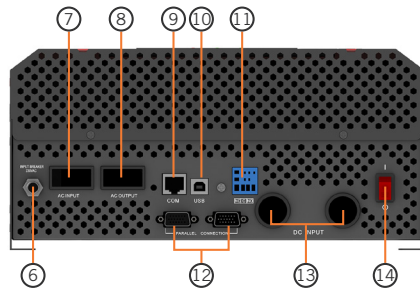
Solar Inverter System Connection:

Power Inverter + Battery + Solar Panels + Grid + Application Loads

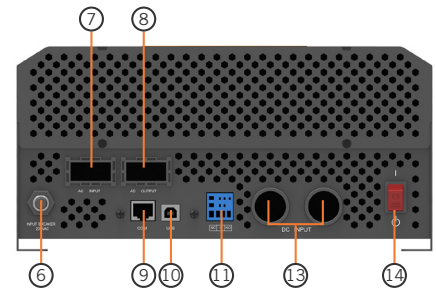


EP1800 SERIES (2KVA-5KVA)

High Frequency Pure Sine Wave Inverter



4KVA-5KVA



2KVA-3KVA

- | | | |
|-----------------------|-----------------------------|--|
| 1. LCD display | 6. Circuit breaker | 11. Dry contact |
| 2. Status indicator | 7. AC input | 12. Parallel communication port
(only for parallel model) |
| 3. Charging indicator | 8. AC output | 13. Battery input |
| 4. Fault indicator | 9. RS485 communication port | 14. Power on/off switch |
| 5. Function button | 10. USB | |

MODEL		EP18-1K	EP18-1K	EP18-2K	EP18-3K	EP18-1K	EP18-2K	EP18-3K	EP18-4K	EP18-5K	
Nominal Battery System Voltage		12VDC	24VDC	24VDC	24VDC	48VDC	48VDC	48VDC	48VDC	48VDC	
INVERTER OUTPUT	Rated Power	1000VA	1000VA	2000VA	3000VA	1000VA	2000VA	3000VA	4000VA	5000VA	
		800W	800W	1600W	2400W	800W	1600W	2400W	3200W	4000W	
	Surge Power	2000VA	2000VA	4000VA	6000VA	2000VA	4000VA	6000VA	8000VA	10000VA	
	Waveform	Pure sine wave									
	AC Voltage Regulation (Batt.Mode)	230VAC±5%									
	Inverter Efficiency (Peak)	90%	93%								
	Transfer Time	10ms(For Personal Computers) 20ms(For Home Appliances)									
AC INPUT	Voltage	230VAC									
	Selectable Voltage Range	170~280VAC(For Personal Computers) 90~280VAC(For Home Appliances)									
	Frequency Range	50Hz/60Hz (Auto sensing)									
BATTERY	Nominal voltage	12VDC	24VDC			48VDC					
	Floating Charge Voltage	13.5VDC	27VDC			54VDC					
	Overcharge Protection	15.5VDC	31VDC			60VDC					
OTHER	Standby Power Consumption	1W	2W			2W					
	Maximum AC Charge Current	10A or 20A	20A or 30A			10A or 15A			60A		
	Machine Dimensions (W*H*D)(mm)	240*316*95	240*316*95	272*355*100		240*316*95	272*355*100		297.5*468*125		
	Package Dimensions (W*H*D)(mm)	465*373*231							576*395*241		
	Net Weight(kg)	6			6.8	6	6.8	11.5	12		
	Gross Weight(kg)	7			8.8	7	8.8	13	13.7		
	Humidity	5% to 95% Relative Humidity (Non-condensing)									
	Operating Temperature	0°C -55°C									
	Storage Temperature	-15°C -60°C									