Epoch Series

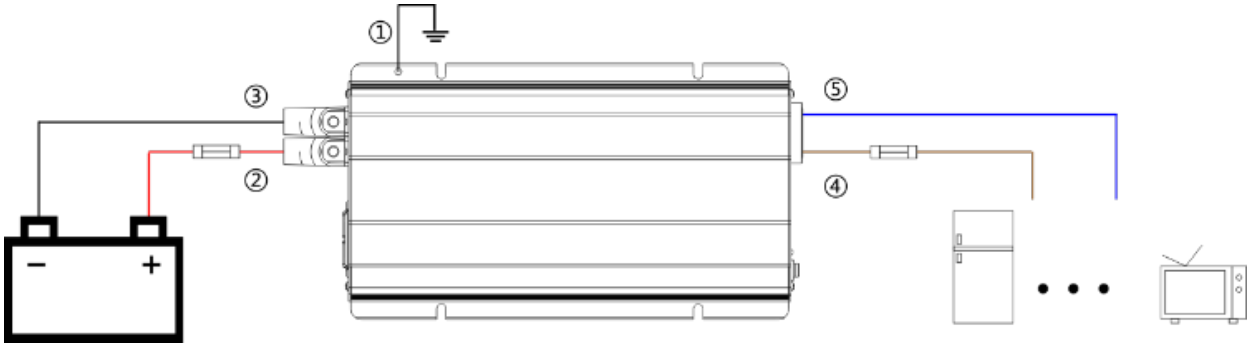
Pure Sine Wave Inverter

EP1000-22X
EP1000-21X
EP600-12X
EP1200-12X

Safety Instructions

Thanks for purchasing Epoch series inverters. The product is a pure sine wave inverter which can convert 12V/24Vdc to 220V/230Vac(or110V/120Vac) 50/60Hz based on full digital and intelligent design. It features high reliability high efficiency, full protection functions, easy installation and operation. The inverter can be applied in many fields, such as household appliances, electric tools and industrial devices etc, especially for solar photovoltaic power system.

- Adoption of advanced SPWM technology, pure sine wave output
- Dynamic current loop control technology to ensure inverter reliable operation
- Wide DC input voltage range
- Low output harmonic distortion(THD≤2%)
- LED indicators for input voltage range, normal output & failure state
- Extensive protections: short-circuit, overload, under/over input voltage, over-temperature, and inverter's inner fault identification protections
- The output voltage and frequency can be switched
- Complete isolation-type inverter technology
- Optional energy SAV mode(saving mode)
- Wide working temperature range (industrial level)
- Continuous operation at full power



Technical Data

Item	EP1000-22X	EP1000-21X	EP600-12x	EP1200-12X
Electrical Parameters				
Input rated voltage	24V		12V	
Input voltage range	21~30.5Vdc		10.8~15.5Vdc	
No load current	≤0.5A@24Vdc			
Output voltage	220/230Vac	110/120Vac		220/230Vac
Continuous power	1000W		600W	1200W
Power 60sec	1100~1300W		750~1200W	1400~1800W
Power 10sec	/		900~1200W	/
Power 1.5sec	>1300W		> 1200W	> 1800W
Surge Power	<2000W		< 1350W	< 2400W
Output Mode	Single-phase electricity			
Output wave	Pure sine wave			
Frequency	50/60Hz			
Diatortion THD	THD≤2%(Resisitive load)			
Efficiency at full load *1	>92%		> 92.5%	>92%
Max. efficiency *2	≥94%	≥93%	≥93%	≥93%
SAV mode	0.2A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously		nothing	0.2A； Detect the load every 10 seconds, and output continuously when the load is greater than 20W
DC current	50A			
Shutdown status	< 1mA			
Fuse	30A*3			200A*1
Environment Parameters				
Dimension	383*189*73mm			330.67*248*98.5
Hole Size	φ7mm			
Weight	3.1Kg		2.9Kg	None
Working temperature	-20℃~+50℃			
Storage temperature	-35℃~+70℃			
Humidity	< 95%(N.C.)			
Altitude	< 5000m （Derating to operate accoding to IEC62040 at a height exceeding 1000m)			
Other Parameters				
Insulation	Between AC output/DC input terminals and metal case: ≥550MΩ			
Dielectric strenth	Between AC output/DC input terminals and metal case: Test voltage AC1500V, 1min			None
Application	Household appliances, cars, solar system and so on			None

*1.Ressistive at full load is continuous output power when the DC input is the rated voltage(25℃);

*2.The efficiency is referred to the max. power when connected with different load under the rated DC input voltage.

*3.Select appropriate inverters according to voltage standards of different countries.