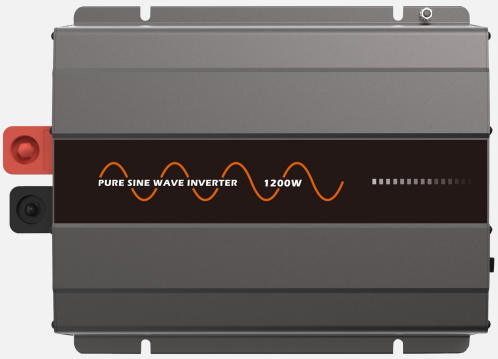
Lumiax
Magic your solar life

Epoch Series

Pure Sine Wave Inverter

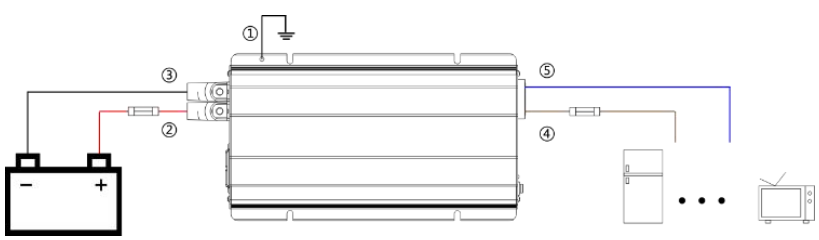


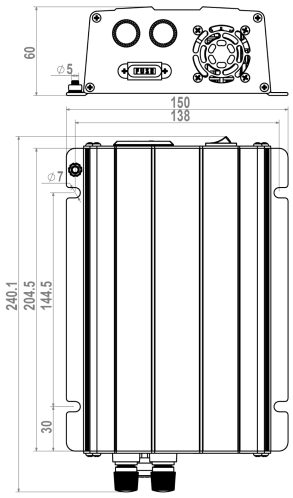
EP350-12X
EP1000-22X
EP1000-21X
EP600-12X
EP1500-12X
EP2000-22X
EP2000-42X

Safety Instructions

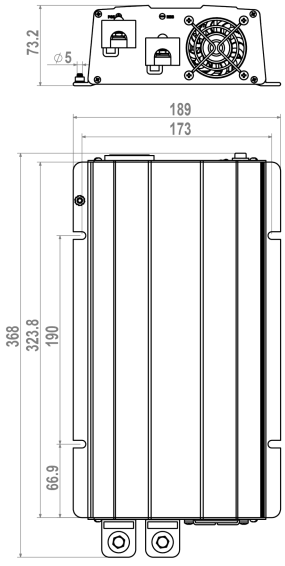
Thanks for purchasing Epoch series inverters. The product is a pure sine wave inverter which can convert 12V/24Vdc to 220V/230Vac(or110V/120Vac) 50/60Hz based on full digital and intelligent design. It features high reliability high efficiency, full protection functions, easy installation and operation. 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

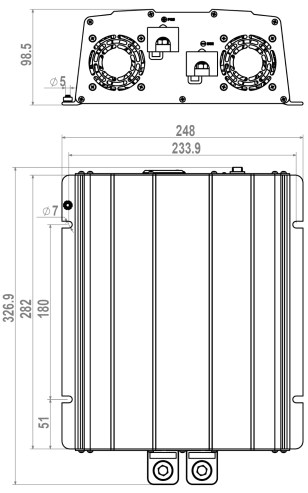




EP350-12X



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



EP1500-12X
EP2000-22X
EP2000-42X

Web: www.lumiax.com E-mail: solar@lumiax.com

Technical Data

Item	EP350-12X	EP600-12X	EP1500-12X
Electrical Parameters			
Input rated voltage	12V		
Input voltage range	10.8~16Vdc	10.8~16Vdc	
No load current	≤0.8A@12Vdc	≤0.9A@12Vdc	≤1.2A@12Vdc
Output voltage	220/230Vac		
Continuous power	280W	600W	1200W
Continuous 15 minutes of output power	350w	/	1500W
Power 15min	300~350W	/	1300W~1500W
Power 60sec	350~420W	750~900W	1500~1800W
Power 10sec	/	900~1200W	/
Power 1.5sec	420~750W	1200W~1350W	1800W~2400W
Surge Power	＜750W	＜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	88%	92.5%	92%
Max. efficiency *2	90.1%	93%	93.5%
SAV mode	nothing		0.82A； Detect the load every 10 seconds, and output continuously when the load is greater than 20W
DC current	25A	50A	100A
Shutdown status	＜1mA		
Fuse	40A*1	100A*1	200A*1
Environment Parameters			
Dimension	240.9*150*59.9mm	366.4*189*73.2mm	326.9*248*98.5mm
Hole Size	φ7mm		
Net weight	1.1Kg	2.9Kg	4.1Kg
Working temperature	-20℃~+50℃		
Storage temperature	-35℃~+70℃		
Humidity	＜95%(N.C.)		
Altitude	＜5000m （Derating to operate accoding to IEC62040 at a heightexceeding 1000m）		
Other Parameters			
Insulation	Between AC output/DC input terminals and metal case: ≥550MΩ		Between AC output terminals and metal case: ≥550MΩ
Dielectric strenth	Between AC output/DC input terminals and metal case:Test voltage AC1500V, 1min		Between AC output terminals and metal case:Test voltage AC1500V, 1min
Application	Household appliances, cars, solar system and so on		

*1.After 15min overload protection is triggered, it does not have recovery function.
*2.The DC input is the rated voltage, and the pure resistive full load power is the continuous output power (@ 25 ℃)
*3.The DC input is the rated voltage and the maximum efficiency under different load power conditions.
*4.Select the appropriate inverter according to the voltage standards of different countries.

Technical Data

Item	EP1000-21X	EP1000-22X	EP2000-22X	EP2000-42X
Electrical Parameters				
Input rated voltage	24V			48V
Input voltage range	21~31Vdc			43.2~64Vdc
No load current	≤0.5A@24Vdc		≤0.6A@24Vdc	≤0.4A@48Vdc
Output voltage	110/120Vac	220/230Vac		220/230Vac
Continuous power	1000W		1600W	
Continuous 15 minutes of output power	/		2000W	
Power 15min	/		1700~2000W	
Power 60sec	1100~1300W		2000~2400W	
Power 10sec	/		/	
Power 1.5sec	1300W		2400W~3200W	
Surge Power	<2000W		＜3200W	
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%		93.3%	94%
Max. efficiency *2	93%	94%	94.5%	94.7%
SAV mode	0.2A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously		0.36A； Detect the load every 10 seconds, and output continuously when the load is greater than 20W	0.28A； Detect the load every 10 seconds, and output continuously when the load is greater than 20W
DC current	50A		70A	35A
Shutdown status	＜1mA			
Fuse	100A*1		125A*1	100A*1
Environment Parameters				
Dimension	366.4*189*73.2mm		326.9*248*98.5mm	
Hole Size	φ7mm			
Net weight	3.1Kg		4.1Kg	
Working temperature	-20℃~+50℃			
Storage temperature	-35℃~+70℃			
Humidity	＜95%(N.C.)			
Altitude	＜5000m （Derating to operate accoding to IEC62040 at a heightexceeding 1000m)			
Other Parameters				
Insulation	Between AC output/DC input terminals and metal case: ≥550MΩ		Between AC output terminals and metal case: ≥550MΩ	
Dielectric strenth	Between AC output/DC input terminals and metal case:Test voltage AC1500V, 1min		Between AC output terminals and metal case:Test voltage AC1500V, 1min	
Application	Household appliances, cars, solar system and so on			

*1.After 15min overload protection is triggered, it does not have recovery function.

*2.The DC input is the rated voltage, and the pure resistive full load power is the continuous output power (@ 25 ℃)

*3.The DC input is the rated voltage and the maximum efficiency under different load power conditions.

*4.Select the appropriate inverter according to the voltage standards of different countries.