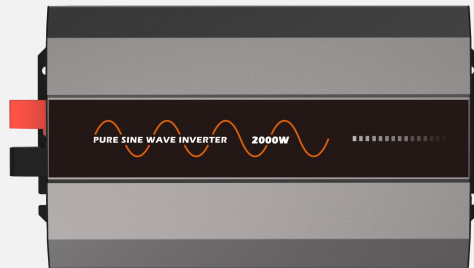


Epoch-M Series

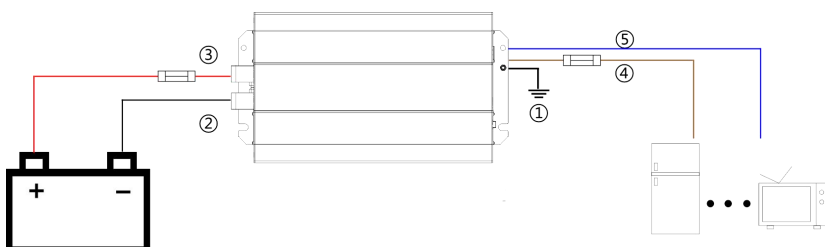
Pure Sine Wave Inverter



Safety Instructions

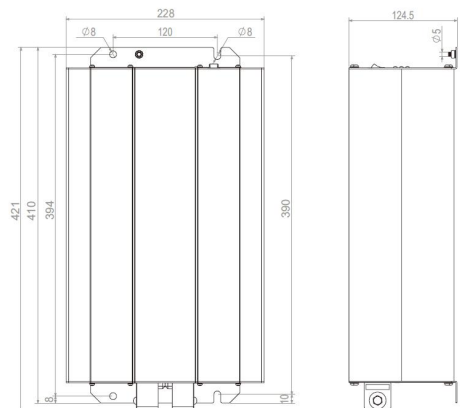
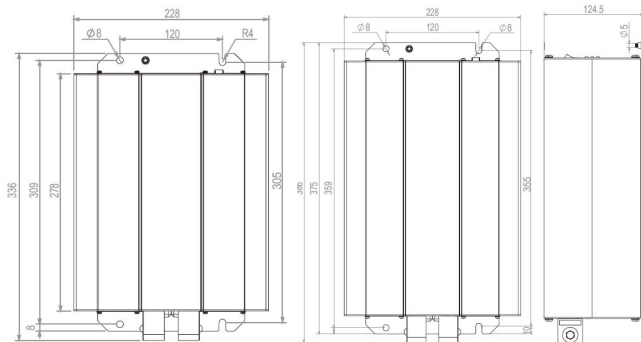
Thanks for purchasing Epoch-M series inverters. The product is a pure sine wave inverter which can convert DC to AC based on full digital and intelligent design. It features high reliability high efficiency, full protection functions, easy installation and operation. The inverter can be applied in many fields, such as household appliances, electric tools and industrial devices etc, especially for solar photovoltaic power system.

- Complete isolation-type inverter technology.
- 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.
- Optional energy SAV mode (saving mode).
- Wide working temperature range (industrial level).
- Continuous operation at full power.
- Low power consumption mode optional.
- Excellent EMC characteristics, can be used in the power quality requirements of high occasions.

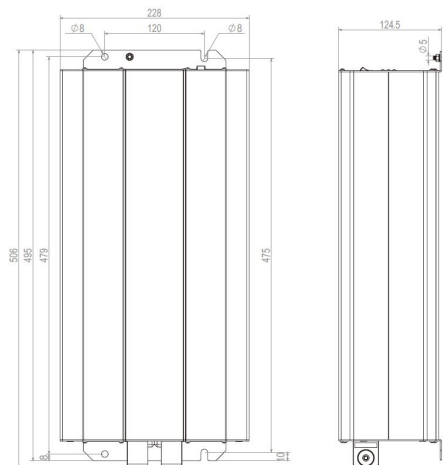


EPM1000-21
EPM1000-22

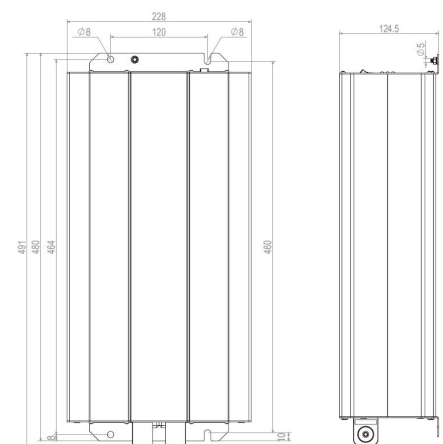
EPM1500-41
EPM1500-42



EPM2000-41
EPM2000-42



EPM3000-41



EPM3000-42

Technical Data

Item	EPM1000-21		EPM1000-22	
Electrical Parameters				
Input rated voltage	24V			
Input voltage range	21.6~32Vdc			
No load current	≤0.6A@24Vdc		≤0.8A@24Vdc	
Output voltage	110/127Vac		220/230Vac	
Continuous power	1000W			
Power 60sec	1100~1600W			
Power 1.5sec	1600W~2000W			
Surge Power	< 2000W			
Output Mode	Single-phase electricity			
Output wave	Pure sine wave			
Frequency	50/60Hz			
Diatortion THD	THD≤2%(Resistive load)			
Efficiency at full load *1	90.10%		91.1%	
Max. efficiency *2	91%		91.5%	
SAV mode	0.36A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously		0.18A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously	
DC current	45A			
Shutdown status	< 1mA			
Fuse	30A*4			
Environment Parameters				
Dimension	336*228*124.5mm			
Hole Size	φ8mm			
Net weight	4.3Kg		4.2kg	
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 terminals and metal case: ≥550MΩ			
Dielectric strenth	Between AC output terminals and metal case:Test voltage AC1500V, 1min			
Application	Household appliances, cars, solar system and so on			

* 1.The DC input is the rated voltage, and the pure resistive full load power is the continuous output power.

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

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

Technical Data

Item	EPM1500-41		EPM1500-42
Electrical Parameters			
Input rated voltage	48V		
Input voltage range	43.2~64Vdc		
No load current	≤0.3A@48Vdc		≤0.4A@48Vdc
Output voltage	110/127Vac		220/230Vac
Continuous power	1500W		
Power 60sec	1600~2300W		
Power 1.5sec	2300~3000W		
Surge Power	<3000W		
Output Mode	Single-phase electricity		
Output wave	Pure sine wave		
Frequency	50/60Hz		
Diatortion THD	THD≤2%(Resisitive load)		
Efficiency at full load *1	91.7%		93.6%
Max. efficiency *2	93.2%		94.3%
SAV mode	0.18A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously		0.17A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously
DC current	35A		
Shutdown status	< 1mA		
Fuse	20A*4		
Environment Parameters			
Dimension	386*228*124.5mm		
Hole Size	φ7mm		
Weight	5Kg		4.8Kg
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 terminals and metal case: ≥550MΩ		
Dielectric strenth	Between AC output terminals and metal case: Test voltage AC1500V, 1min		
Application	Household appliances, cars, solar system and so on		

* 1.The DC input is the rated voltage, and the pure resistive full load power is the continuous output power.

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

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

Technical Data

Item	EPM2000-41	EPM2000-42
Electrical Parameters		
Input rated voltage	48V	
Input voltage range	43.2~64Vdc	
No load current	≤0.3A@48Vdc	≤0.4A@48Vdc
Output voltage	110/127Vac	220/230Vac
Continuous power	2000W	
Power 60sec	2100~3000W	
Power 1.5sec	3000~4000W	
Surge Power	<4000W	
Output Mode	Single-phase electricity	
Output wave	Pure sine wave	
Frequency	50/60Hz	
Diatortion THD	THD≤2%(Resisitive load)	
Efficiency at full load *1	90.6%	93%
Max. efficiency *2	93.1%	94.2%
SAV mode	0.23A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously	0.2A; The load is detected every 10sec, if the output power is greaterthan 20W, it will output continuously
DC current	45A	
Shutdown status	< 1mA	
Fuse	30A*4	
Environment Parameters		
Dimension	421*228*124.5mm	
Hole Size	φ8mm	
Weight	5.4Kg	
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 terminals and metal case: ≥550MΩ	
Dielectric strenth	Between AC output terminals and metal case: Test voltage AC1500V, 1min	
Application	Household appliances, cars, solar system and so on	

* 1.The DC input is the rated voltage, and the pure resistive full load power is the continuous output power.

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

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

Technical Data

Item	EPM3000-41	EPM3000-42
Electrical Parameters		
Input rated voltage	48V	
Input voltage range	43.2~64Vdc	
No load current	≤0.3A@48Vdc	≤0.4A@48Vdc
Output voltage	110/127Vac	220/230Vac
Continuous power	3000W	
Power 60sec	3100~4500W	
Power 1.5sec	4500~6000W	
Surge Power	<6000W	
Output Mode	Single-phase electricity	
Output wave	Pure sine wave	
Frequency	50/60Hz	
Distortion THD	THD≤2%(Resistive load)	
Efficiency at full load *1	91.20%	92.60%
Max. efficiency *2	94.16%	95.05%
SAV mode	0.22A; The load is detected every 10sec, if the output power is greater than 20W, it will output continuously	0.18A; The load is detected every 10sec, if the output power is greater than 20W, it will output continuously
DC current	70A	
Shutdown status	< 1mA	
Fuse	30A*5	
Environment Parameters		
Dimension	506*228*124.5mm	491*228*124.5mm
Hole Size	φ8mm	
Net Weight	6.8Kg	6.6Kg
Working temperature	-20°C~+50°C	
Storage temperature	-35°C~+70°C	
Humidity	< 95%(N.C.)	
Altitude	< 5000m (Derating to operate according to IEC62040 at a height exceeding 1000m)	
Other Parameters		
Insulation	Between AC output terminals and metal case: ≥550MΩ	
Dielectric strength	Between AC output terminals and metal case: Test voltage AC1500V, 1min	
Application	Household appliances, cars, solar system and so on	

* 1.The DC input is the rated voltage, and the pure resistive full load power is the continuous output power.

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

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