

Pure Sine Wave Inverter



SHI series

SHI series is a pure sine wave inverter which can convert 12/24/48Vdc to 220/230Vac 50/60Hz based on full digital and intelligent design. It features high reliability, high efficiency, concise outline, small volume, 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.

Features:

- Input & output fully isolation
- Adoption of advanced SPWM technology, pure sine wave output
- Dynamic current loop control technology to ensure inverter reliable operation
- Wide DC input voltage range
- The output voltage and frequency can be switched
- Low output harmonic distortion (THD≤3%)
- LED indicators for input voltage range, load power range, normal output & failure state
- Optional energy saving mode
- Wide working temperature range (industrial level)
- Continuous operation at full power

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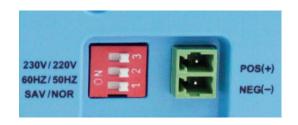
Electronic protections:

- Output short circuit protection
- Input over voltage protection
- Overload protection
- Overheating protection
- Input low voltage protection
- Inverter abnormal protection

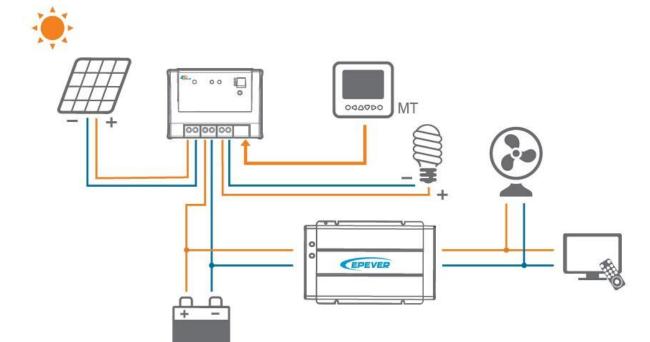








Mode Switch & Switch Node





Technical specifications:

Types	SHI400-12	SHI400-22	SHI600-12	SHI600-22	SHI1000-22	SHI1000-42		
Nominal Battery Voltage	12V	24V	12V	24V	24V	48V		
Input Voltage Range	10.8~16Vdc	21.6~32Vdc	10.8~16Vdc	21.6~32Vdc	21.6~32Vdc	43.2~64Vdc		
No Load Current	≤0.8A	≤0.45A	≤0.7A	≤0.45A	≤0.45A	≤0.35A		
Output Wave	Pure Sine Wave							
Output Voltage			220Vac±3% /	′ 230Vac±10%	ó			
Continuous Power	400W 600)W	1000W				
Power 10 sec	600W		900W		1500W			
Power 1.5 sec	800W		1200W		2000W			
Surge Power	900W		1350W		2250W			
Frequency	50/60Hz±0.2%							
Distortion THD	≤ 3% (resistive load)							
Efficiency at Rated Power	≥91%	≥92%	≥91%	≥92%	≥93%	≥93.5%		
Max. Efficiency	≥92%	≥93%	≥93%	≥94%	≥94%	≥94%		
Terminal	16n	nm²	25n	nm²	25mm ²			
Dimensions	280×166×74.3mm		295×186×82mm		295×208×98mm			
Installation	150×158mm		150×178mm		150×200mm			
Hole Size	Ф5тт		Ф6mm		Ф6тт			
Net Weight	1.8kg		2.3kg		3.3kg			
Working Temperature	-20℃~ +50℃							
Storage Temperature	-35℃~ +70℃							
Humidity	< 95% (N.C.)							
Altitude	< 5000m(De	rating to opera	ate according to	o IEC62040 at	a height excee	eding 1000m)		



Types	SHI2000-22	SHI2000-42	SHI3000-22	SHI3000-42			
Nominal Battery Voltage	24V	48V	24V	48V			
Input Voltage Range	21.6 ~32Vdc	43.2 ~64Vdc	21.6 ~32Vdc	43.2 ~64Vdc			
No Load Current	≤0.7A	≤0.7A	≤1.2A	≤1.0A			
Output Wave	Pure Sine Wave						
Output Voltage	220Vac±3% / 230Vac±10%						
Continuous Power	200	OOW	3000W				
Power 10 sec	300	OOW	4500W				
Power 1.5 sec	400	OOW	6000W				
Surge Power	460	OOW	6900W				
Frequency	50/60Hz±0.2%						
Distortion THD	≤ 3% (resistive load)						
Efficiency at Rated Power	≥93%	≥94%	≥93%	≥94%			
Max. Efficiency	≥95%	≥95%	≥95%	≥95%			
Terminal	50r	mm²	50mm ²				
Dimensions	436×249	9×116mm	507×249×116mm				
Installation	236×2	220mm	236×270mm				
Hole Size	Ф6	mm	Ф6mm				
Net Weight	6.0	Okg	7.5kg				
Working Temperature	-20℃~ +50℃						
Storage Temperature	-35℃~ +70℃						
Humidity	< 95% (N.C.)						
Altitude	< 5000m(Derating to	o operate according t	to IEC62040 at a heig	ht exceeding 1000			

Output socket (option):



Universal



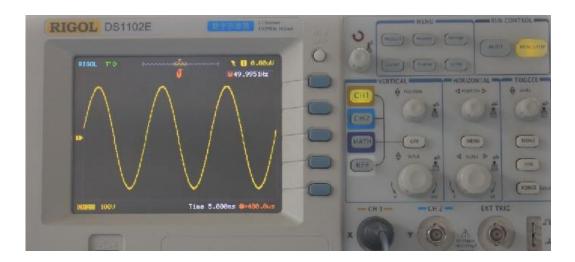
European



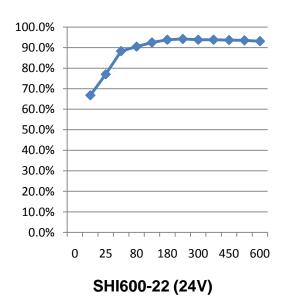
Australia/New Zealand

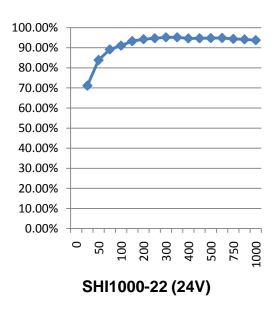


Wave Form:



Efficiency Curve:







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