EPEVER
EPSOLAR TECHNOLOGY

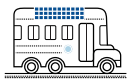
SHI Series
Pure Sine vawe inverter

Overview

SHI Series is a pure sin wave inverter which can convert 12/24/48VDC to 220/230VAC 50/60Hz based on full digital and intelligent design. 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

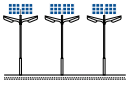
- Complete isolation-type inverter technology
- Adoption of advanced SPWM technology, pure sine wave output
- Dynamic current loop control technology to ensure inverter reliable operation
- Wide DC input voltage range
- Low output harmonic distortion(THD≤3%)
- LED indicators for input voltage range, load power range, normal output & failure state
- Optional energy saving mode
- The output voltage and frequency can be switched
- Extensive protections: short-circuit, overload, under/over input voltage, over-temperature, and inverter's inner fault identification protections
- Wide working temperature range (industrial level)
- Continuous operation at full power

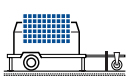

Solar Car

Solar Home

Solar Backpack

Solar Boat


Solar Street Light


Solar Power Generator

Technical Specifications

Item	SHI 400-12	SHI 400-22	SHI 600-12	SHI 600-22	SHI 1000-22	SHI 1000-42
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%					
Continuous Power	400W		600W		1000W	
Power 10 sec	600W		900W		1500W	
Power 1.5 sec	800W		1200W		2000W	
Surge Power	900W		1350W		225 0W	
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	16mm^2		25mm^2		25mm^2	
Dimensions	280×166×74.3mm		295×186×82mm		295×208×98mm	
Installation	150×158mm		150×178mm		150×200mm	
Hole Size	Φ5mm		Φ6mm		Φ6mm	
Net Weight	1.8kg		2.3kg		3.3kg	
Working Temperature	-20℃~ +50℃					
Storage Temperature	-35℃~ +70℃					
Humidity	< 95% (N.C.)					
Altitude	< 5000m(Derating to operate according to IEC62040 at a height exceeding 1000m)					

Technical Specifications

Item	SHI 2000-22	SHI 2000-42	SHI 3000-22	SHI 3000-42
Nominal Battery Voltage	24V	48V	24V	48V
Input Voltage Range	21.6 ~ 32 VDC	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	2000W		3000W	
Power 10 sec	3000W		4500W	
Power 1.5 sec	4000W		6000W	
Surge Power	4600W		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	50mm^2		50mm^2	
Dimensions	436×249×116mm		507×249×116mm	
Installation	236×220mm		236×270mm	
Hole Size	Φ6mm		Φ6mm	
Net Weight	6.0kg		7.5kg	
Working Temperature	-20℃~ +50℃			
Storage Temperature	-35℃~ +70℃			
Humidity	< 95% (N.C.)			
Altitude	< 5000m(Derating to operate according to IEC62040 at a height exceeding 1000m)			

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