

# 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













## **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			W	1000W		
Power 10 sec	600W		900W		1500W		
Power 1.5 sec	800W 1200W		OW	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 <sup>2</sup>		251	25mm²		25mm <sup>2</sup>	
Dimensions	280×166×74.3mm		295×186×82mm		295×208×98mm		
Installation	150×158mm		150×178mm		150×200mm		
Hole Size	Ф5mm		Ф6тт		Ф6тт		
Net Weight	1.8kg		2.3kg		3.3kg		
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)						

## **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	1	3000W				
Power 10 sec	3000W		4500W				
Power 1.5 sec	4000W	1	6000W				
Surge Power	4600W	1	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	50n	nm²	50mm <sup>2</sup>				
Dimensions	436×249	)×116mm	507×249×116mm				
Installation	236×22	20mm	236×270mm				
Hole Size	Ф6п	nm	Ф6mm				
Net Weight	6.0	ĸg	7.5kg				
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)						