

Pure Sine Wave Inverter

SHI series



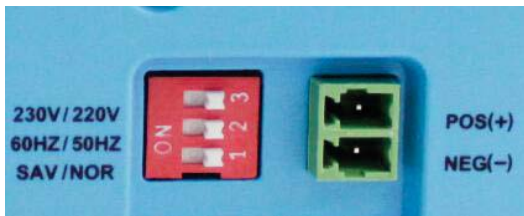
SHI series is a pure sine wave inverter which can convert 12/24/48Vdc to 220/230Vac 50/60Hz based on full digital and intelligent design. It features high reliability, high efficiency, concise outline, small volume, easy installation and operation. The inverter can be applied in many fields, such as household appliances, electric tools and industrial devices etc, especially for solar photovoltaic power system.

Features:

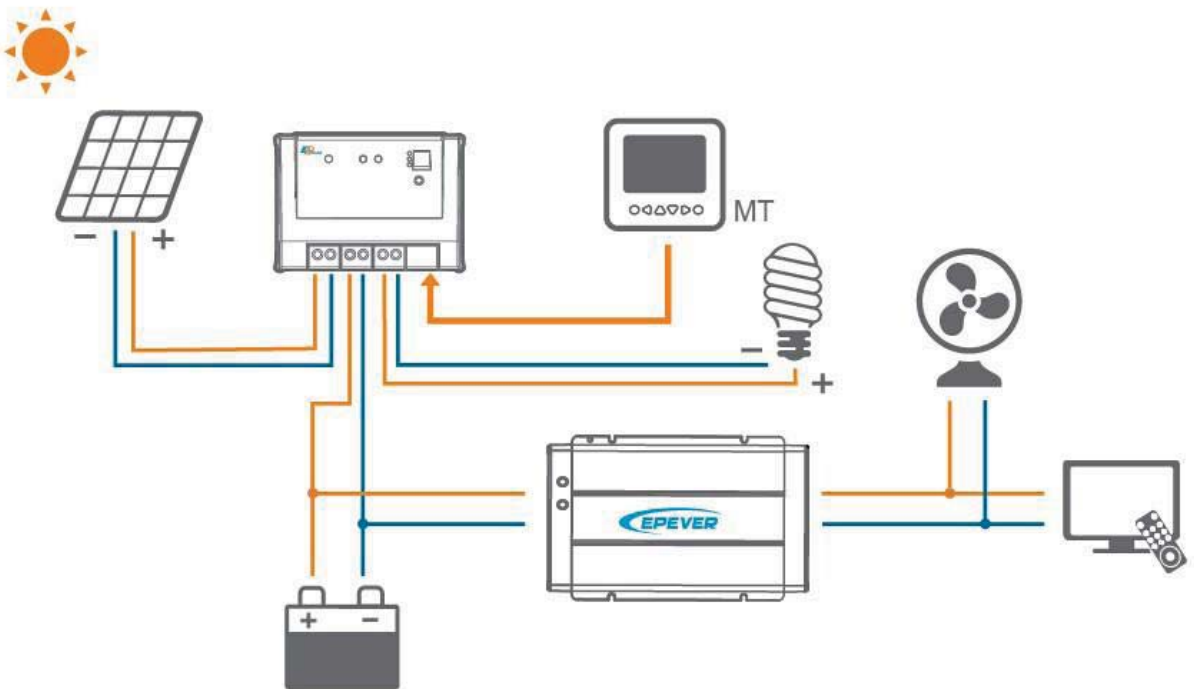
- ◆ Input & output fully isolation
- ◆ Adoption of advanced SPWM technology, pure sine wave output
- ◆ Dynamic current loop control technology to ensure inverter reliable operation
- ◆ Wide DC input voltage range
- ◆ The output voltage and frequency can be switched
- ◆ Low output harmonic distortion (THD \leq 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

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% | | | | | |
| Continuous Power | 400W | | 600W | | 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 | 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°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) | | | | | |