

The Modified Sine Wave Inverter is a DC-to-AC inverter with auto line-to-battery transfer and integrated charging system, serving as an extended-run UPS, is a standalone power source or a home inverter as well. It supplies power from AC power and DC source. When AC cable is connected to a wall outlet, utility power goes to connected equipment and/or charges the batteries via the charging system.

In battery mode, it automatically converts battery energy into AC power for backing up the connected devices.

Features

- Automatic Line to Battery transfer
- Rack / Tower design, installation versatility
 Adjustable wider input voltage range and charging current
 Intelligent charging control, efficient charging
- Auto restart when mains power is restored
- Superior protection: low battery, overcharge, overload, overtemperature and short circuit
- High load-bearing capacity, supporting various household loads and IT equipment (< 50% half-wave load, < 30% inductive load)



Technical specifications

| MODEL | 1200 VA | 1500 VA | 2400 VA |
|--------------------------------------|---|----------------------|-----------------------------|
| Capacity | 720 W | 900 W | 1440 W |
| AC INPUT | | | |
| Rated voltage | 220 / 230 / 240 Vac (selectable) | | |
| Voltage range | 220 V / 230 V / 240 Vac, -22% / -59% ~ +26%, ± 5 Vac (selectable) | | |
| Rated frequency | 50 Hz / 60 Hz (auto-sensing) | | |
| Frequency range | ±10% (default), ±5% ~ 15% (selectable) | | |
| ОИТРИТ | | | |
| Power factor | 0.6 | | |
| Output voltage | Battery mode: 220 V / 230 V / 240 Vac ± 10% (selectable) Mains mode: synchronized with utility power | | |
| Output frequency | Battery mode: 50 Hz / 60 Hz ± 1% (selectable); Mains mode: synchronized with utility power | | |
| Output waveform | Battery mode: square wave; Mains power mode: synchronized with utility power | | |
| Inversion efficiency | ≥ : | 83% (max.) | ≥ 85% (max.) |
| IT equipment | Yes | | |
| Half-wave load | ≤ 50% (rated load) | | |
| Inductive load | ≤ 30% (rated load) | | |
| BATTERIES | | | |
| Rated voltage | | 12 Vdc | 24 Vdc |
| Charging current (Max.) | 20 / 10 / | A ± 3 A (selectable) | 15 / 10 A ± 3 A (selectable |
| Equalizing charge voltage | Single battery 14.2 ± 0.3 Vdc (default), 13.6 ~ 15.0 Vdc (selectable) | | |
| Floating charge voltage | Single battery 13.6 ± 0.3 Vdc | | |
| Low voltage alarm | Single battery 10.8 ± 0.3 Vdc (default), 9.6 ~ 13.0 Vdc (selectable) | | |
| Low voltage shutdown | Single battery 10.2 ± 0.3 Vdc (default), 9.6 ~ 12.0 Vdc (selectable) | | |
| Overvoltage protection | Single battery 15.0 ± 0.3 Vdc | | |
| Overvoltage recovery | Single battery 13.6 ± 0.3 Vdc | | |
| SYSTEM | | | |
| Transfer time | ≤ 8 ms (typical) , ≤ 15 ms (max.) | | |
| Protections | Overload, short circuit, over-temperature, output over/under-voltage, excessive low battery | | |
| Overload times (Mains mode) | ≥ 110% for 120 s, ≥ 125% for 60 s, ≥ 150% for 10 s, ≥ 200% for 1 s | | |
| Overload times (Battery mode) | ≥ 110% for 60 s, ≥ 125% for 5 s, ≥ 150% for 1 s | | |
| Communication interface | No | | |
| Panel display | LCD+LED | | |
| OTHERS | | | |
| Operating temperature | | 0 ~ 45°C | |
| Operating humidity | 0 ~ 95% (non-condensing) | | |
| Altitude | ≤ 1000 m (Above 1000 m, derating 1% for each additional 100 m) | | |
| IP rating | IP 20 | | |
| Cooling | Forced-air cooling | | |
| Noise | < 45 dB | | |
| Dimensions (W x D x H) (mm) | 245 × 220 × 80 | | |
| Packaged dimensions (W × D × H) (mm) | 315 × 290 × 156 | | |
| Net weight (kg) | 2.66 | 2.68 | 2.82 |
| Gross weight (kg) | 3.02 | 3.04 | 3.18 |

