

2000W Pure Sine Wave Power Inverter

1. General Information

Model: P2002

Description: 2000W AC 240V Pure Sine Wave Inverter

2. Electrical Specifications

2.1 DC Input

- Rated Input Voltage: 12VDC
- Input Voltage Range: 10.5–15.5VDC

2.2 AC Output

- Pure Sine Wave Output
- Rated Output Power: 2000W Max
- Peak Output Power: 4000W @ 0.2 seconds
- Output Voltage: 240VAC $\pm 5\%$
- Output Frequency: 50Hz $\pm 5\%$
- Output VA: 240V / 8.4A Max
- THD: $\leq 5\%$ at full load

2.3 Load Capability

- Resistive Load: 2000W Max
- Inductive Load (PF ≥ 0.8): $\geq 1600W$
- Capacitive Load: $\geq 1600W$

3. Display, Fan & Protection Functions

- LCD display shows input/output voltage, battery level, load, and warning indicators.
- Built-in active cooling fan with automatic temperature/power control.

Buzzer Reminder Patterns:

- Low-voltage warning: 1 beep repeated
- Low-voltage protection: 2 beeps (25 seconds)

- Over-voltage: 3 beeps (25 seconds)
- Temperature protection: 4 beeps
- Short-circuit protection: 5 beeps
- Overload: 6 beeps (25 seconds)

4. Protection Threshold Table

Item	Min	Typical	Max
Input Voltage Range (V)	10.5	12	15
Under-voltage Protection (V)	9.5	10.0	10.5
Over-voltage Protection (V)	15	15.5	16

5. Mechanical & Environmental

- Product Size: 360 × 190 × 95 mm
- Net Weight: ~2.98 kg
- Operating Temperature: -10°C ~ 40°C
- Storage Temperature: -20°C ~ 60°C
- Operating Humidity: 20% ~ 85% RH
- Storage Humidity: 20% ~ 85% RH

6. Certifications & Accessories

- Certifications: SAA, CB, C-Tick
- User manual
- Positive & negative battery wires (ring terminals)
- Mounting screws + expansion tubes
- Mobile screen (remote display)