



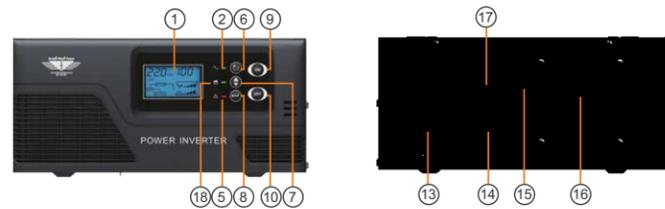
Features

- Rated power 300W to 2100W
- Pure sine wave output
- Smart LCD setting (frequency , charge voltage,charge current, etc).
- 3 steps charging algorithm
- Built in AVR function
- Overload and short-circuit protection
- Battery reverse polarity protection (Optional)
- Deep discharge protection
- Cold start function

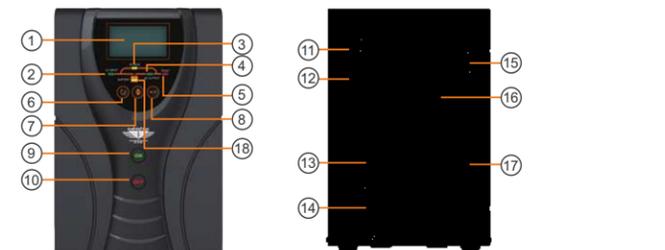
Introduction

EP2000 PRO series inverter is a cost effective, intelligent with UPS function. The comprehensive LCD offers user-configurable and easy-accessible button adjustment such as battery charge current, battery charge voltage, frequency, buzzer etc. It's perfect for the user who need a simple and economical inverter,with user-friendly installation and setting. Tower and rack design available for different choices.

Back panel printing description



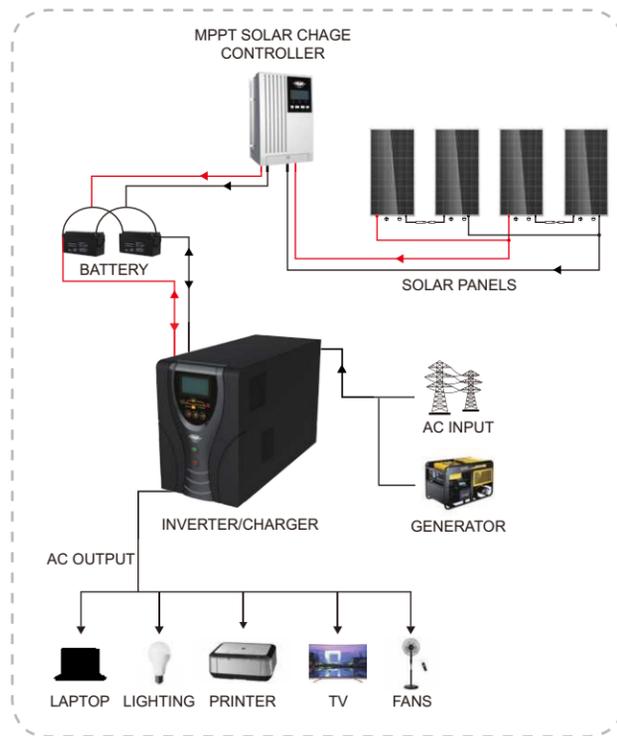
EP2000 PRO (Rack)



EP2000 PRO (Tower)

- | | | |
|------------------|---------------|------------------|
| 1. LCD display | 7. SEL | 13.AC Input |
| 2. AC Input LED | 8. ENTER | 14.Battery input |
| 3. Bypass LED | 9. Power On | 15.RS232 |
| 4. AC output LED | 10.Power Off | 16.Fan |
| 5. Fault LED | 11. Fax / Tel | 17.AC output |
| 6. ESC | 12.USB | 18.Battery LED |

Solar system connection



Specification

| MODEL | EP20-0312 PRO | EP20-0612 PRO | EP20-0812 PRO | EP20-1012 PRO | EP20-0324 PRO | EP20-0624 PRO | EP20-0824 PRO | EP20-1024 PRO | EP20-2148 PRO | |
|--------------------------------|---------------------------------|--|---------------------------------|---------------|---------------|---------------------------------|---------------------------------|---------------|---------------|---------------------------------|
| Default Battery System Voltage | 12VDC | | | | 24VDC | | | | 48VDC | |
| INVERTER OUTPUT | Rated Power | 400W | 500W | 800W | 1000W | 300W | 600W | 800W | 1000W | 2100W |
| | Surge Rating (20ms) | 1200W | 1500W | 2400W | 3000W | 900W | 1800W | 2400W | 3000W | 6300W |
| | Waveform | Pure sine wave | | | | | | | | |
| | Rated Output Voltage | Inverter: 230VAC (±2% RMS), AVR: 195VAC-245VAC | | | | | | | | |
| | Output Frequency | 50Hz \ 60Hz ±0.2Hz | | | | | | | | |
| | Invert Frequency (Peak) | >75% | | | | >81% | | | | >83% |
| | Bypass Efficiency | >95% | | | | | | | | |
| AC INPUT | Output Transfer Time | Typical:6ms 10ms(max) | | | | | | | | |
| | Voltage | 220 \ 230 \ 240VAC | | | | | | | | |
| | Selectable Voltage Range | 140~280VAC±2% | | | | | | | | |
| | Low Battery Alarm | 140VAC±2% | | | | | | | | |
| | Low Voltage Recover | 150VAC±2% | | | | | | | | |
| | High Battery Alarm | 280VAC±2% | | | | | | | | |
| | High Voltage Recover | 270VAC±2% | | | | | | | | |
| | Low Frequency Alarm | 45±2Hz | | | | | | | | |
| | Low Frequency Recover | 46±2Hz | | | | | | | | |
| | High Frequency Alarm | 65±2Hz | | | | | | | | |
| | High Frequency Recover | 64±2Hz | | | | | | | | |
| | Nominal Input Range | 50Hz \ 60Hz ±2Hz | | | | | | | | |
| | AC Auto Restart | YES | | | | | | | | |
| | BATTERY | Minimum Start Voltage | Low Battery Voltage Cutoff+0.5V | | | | Low Battery Voltage Cutoff+0.5V | | | |
| Low Battery Alarm | | Low Battery Voltage Cutoff+0.5V | | | | Low Battery Voltage Cutoff+0.5V | | | | Low Battery Voltage Cutoff+1.0V |
| Low Battery Cutoff | | 10-12.0VDC | | | | 20.0-24.0VDC | | | | 42-44VDC |
| High Battery Cutoff | | Nominal Voltage +0.5V | | | | Nominal Voltage +1.0V | | | | |
| AC CHARGE | Floating Voltage | 13.5-14.5VDC | | | | 27-29VDC | | | | 54-58VDC |
| | Nominal Voltage | 13.8~14.5V | | | | 27.6~29V | | | | 55.2-58VDC |
| | Maximum Charge Current | 400W 10A | 500W 15A | 800W 25A | 1000W 30A | 300W 5A | 600W 10A | 800W 15A | 1000W 15A | 3000W 18A |
| BYPASS & PROTECTION | Input Waveform | Pure sine wave | | | | | | | | |
| | Input Frequency | 50Hz or 60Hz | | | | | | | | |
| | Overload Protection | 110%~125%R Load fault after 30S ; 125%~150%R Load fault after 3S ; >150%R Load fault after 500ms | | | | | | | | |
| | Over Temperature Protection | ≥90°C | | | | | | | | |
| | Bypass Output Protection | 10A 250VAC | | | | | | | | |
| | Output Circuit Protection | YES | | | | | | | | |
| | Battery Reverse Protection | Optional | | | | | | | | |
| | Battery Low Voltage Protection | YES | | | | | | | | |
| | Battery High Voltage Protection | YES | | | | | | | | |
| Bypass Breaker Rating | 10A | | | | | | | | | |
| Maximum Bypass Current | 10A | | | | | | | | | |
| MECHANICAL SPECIFICATION | Dimensions | 315*145*210mm | | | | | | | 375*192*340mm | |
| | (N.W)kg | 300W 7.5 | 600W 10.7 | 800W 12.5 | 1000W 13.5 | 1000W 14.5 | | | | |
| | Shipping Dimensions(W*H*D) | 420*280*225mm | | | | | | | 525*335*485mm | |
| | (G.W)kg | 300W 8 | 600W 11.5 | 800W 13 | 1000W 14.0 | 3000W 15.5 | | | | |
| | | | | | | | | | | |
| OTHER | Operating Temperature | 0°C ~40°C 0~90% relative humidity (non-condensing) | | | | | | | | |
| | Storage Temperature | -15°C to 55°C | | | | | | | | |
| | Altitude | ≤1000M | | | | | | | | |
| | Audible Noise | ≤60dB | | | | | | | | |
| | Display | LED+LCD | | | | | | | | |
| | Cooling Mode | Fan cooling | | | | | | | | |
| Fan Starting | >45°C starting, <30°C Closing | | | | | | | | | |
| Communication | RS232 / USB | | | | | | | | | |