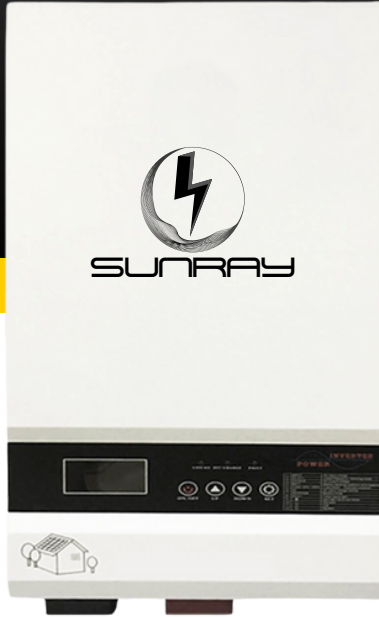




LOW FREQUENCY HYBRID INVERTER

Built-in MPPT solar charge controller 80A/100A/120A/150A

Support mobile APP, can monitor and set inverter parameters



- ① Battery input positive
- ② Battery input negative
- ③ AC input overcurrent switch protector
- ④ RS485 WIFI Network interface (Optional)
- ⑤ Cooling fan
- ⑥ AC Input neutral (Blue)
- ⑦ AC input live (Brown)
- ⑧ AC Input & output ground (Yellow-Green)
- ⑨ AC Output Neutral (Blue)
- ⑩ AC output live (Brown)
- ⑪ Solar input Positive (+)
- ⑫ Solar input negative (-)

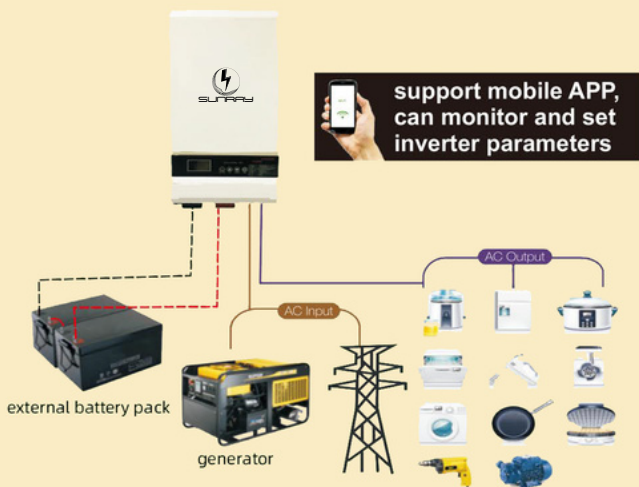


- 1. AC output is the mains standard
- 2. Purifies the harmonic pollution of the mains
- 3. protects the safety of electrical equipment and users
- 4. Improves the operation quality of electrical equipment and saves energy

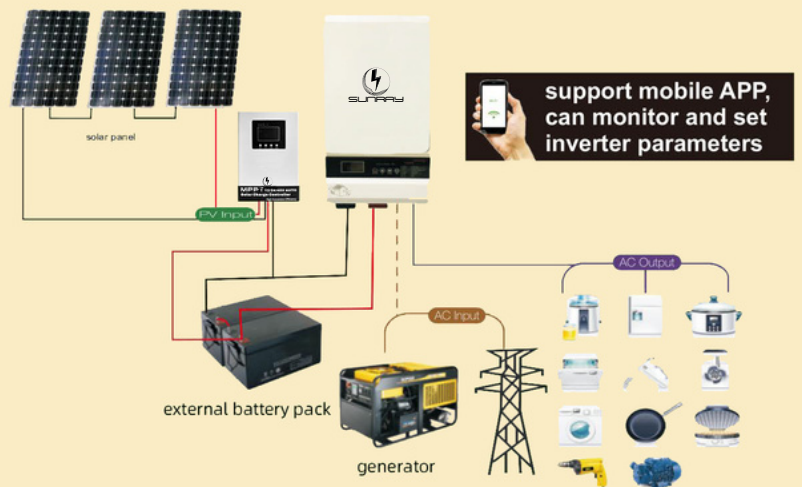
Cooling system

- 1. Intelligently control fan, when the temperature >45°C automatically turn on, <45°C closed, when the temperature is higher, the fan speed faster.
- 2. The load power >50% turn on, <50% closed
- 3. AC charge current >10A turn on, <10A closed

Can set battery high voltage protection and low voltage protection, float charge and equalize charge, compatible with different types of batteries.



**1. CITY POWER PRIORITY
(AC FIRST)**



**2. BATTERY PRIORITY
(DC FIRST)**

SPECIFICATION

| Model | | 1000W | 1500W | 2000W | 3000W | 4000W | 5000W | 6000W | 8000W | 10000W | 12000W | | |
|-----------------------|---|---|-------|-------------------|--|-----------------|--------------|--|--------------------|---------|--------|--|--|
| Input | Rated capacity | 1000W | 1500W | 2000W | 3000W | 4000W | 5000W | 6000W | 8000W | 10000W | 12000W | | |
| | Peak Power | 3000W | 4500W | 6000W | 9000W | 12000W | 15000W | 18000W | 24000W | 30000W | 36000W | | |
| | Commercial Power Range | 110VAC: 83V - 137VAC 220VAC: 165V - 275VAC | | | 120VAC: 90V - 150V 230VAC: 173V - 287V | | | 220VAC: 176V - 264VAC 230VAC: 184V - 276VAC | | | | | |
| | AC Frequency Range | 45-65HZ | | | | | | | | | | | |
| | Efficiency | 85% | | | | | | | | | | | |
| MPPT Solar Controller | MPPT Solar Controller | 30A/50A | | | 50A/60A/80A | | | | 80A/100A/120A/150A | | | | |
| | Solar Input Power | 360W/720W/1200W | | | 1200/1440/2400/2880/3840W | | | | 3840W/4800W/9600W | | | | |
| | Solar Input Voltage (Max) | 12VDC/24VDC:130V | | | 48VDC:160V | | | | 96VDC:280V | | | | |
| Battery | Type | Lead-acid battery / GEL battery / Lithium battery | | | | | | | | | | | |
| | DC Voltage | 12VDC/24VDC | | | 24VDC/48VDC | | 48VDC/96VDC | | | | | | |
| | Input Voltage Range | 12VDC: 10.5 - 15VDC | | 24VDC: 21-30VDC | | 48VDC: 42-60VDC | | 96VDC: 84-120VDC | | | | | |
| | Floating Charge Set | 12.9 ~ 13.6V (1PCS Battery) can be set | | | | | | | | | | | |
| | Low Voltage Restored | 12VDC: 12.6 - 14.4VDC 24VDC: 25.2 - 28.8VDC | | | 48VDC: 50.4 - 57.6VDC 96VDC: 100.8 - 115.2VDC | | | | | | | | |
| | Low Voltage Shutdown Set | 12VDC: 10-10.9V | | 24VDC: 20-21.8VDC | | 48VDC: 40-43 | | 96VDC: 84 - 120VDC | | | | | |
| | Over Voltage Protection | 12VDC: 16.7V | | | 24VDC: 33.4V | | 48VDC: 66.8V | | | | | | |
| | Over Voltage Alarm | 12VDC: 15VDC | | | 24VDC: 30V | | 48VDC: 60V | | | | | | |
| Charger | AC Charging | 5A - 30A (40A-50A-60A-70A Optional) | | | | | | | | | | | |
| Output | Capable of Starting Electric Motor | 0.5HP | 1HP | 1.5HP | | 2HP | | | 3HP | | | | |
| | AVR Voltage Range (VAC) | 110/120/220/230/240 ± 10% (Auto-sensing) | | | | | | | | Without | | | |
| | Transfer Time | Typical: 5ms (Including Detection Time) | | | | | | | | | | | |
| | Temperature Protection | ≥ 85°C alarm ≥ 95°C Machine Shut Off | | | | | | | | | | | |
| | Overload | IPS Automatically Shut Down if Overload Exceeds 120% of normal Value for 10 seconds, IPS Automatically Resume Work if Overload Comes to Rated Load. | | | | | | | | | | | |
| | Waveform | Pure Sine Wave | | | | | | | | | | | |
| | Frequency | Commercial Power Supply: Shared Frequency With the Commercial Inversion State: 60/50 ± 0.5 | | | | | | | | | | | |
| | Output Frequency Range (Electric Supply Mode) | Tracking Automatically | | | | | | | | | | | |

SPECIFICATION

| | | | | | | | | | | | |
|--------------------|-------------------------------------|---|----|----|---------------|----|----|---------------|----|----|----|
| Temperature | Operating Temperature | 0°C ~ 70°C | | | | | | | | | |
| | Thermal Method | Cooling Fan in intelligent control ≤ 42°C fan rotates slowly to ≥ 45°C fan rotates fast | | | | | | | | | |
| Appearance | External Size (mm) L*W*H | 510x295x225mm | | | 645x325x215mm | | | 765x320x250mm | | | |
| | Gross Size (mm) L*W*H | 560x380x280mm | | | 730x400x290mm | | | 850x405x320mm | | | |
| | Net Weight (Kg) | 14 | 15 | 18 | 20 | 31 | 34 | 35 | 50 | 52 | 56 |
| | Gross Weight (Kg) | 16 | 17 | 20 | 22 | 34 | 37 | 39 | 54 | 56 | 60 |