

PHOTOVOLTAIC INVERTER: 12V—48V PURE SINE WAVE INVERTER



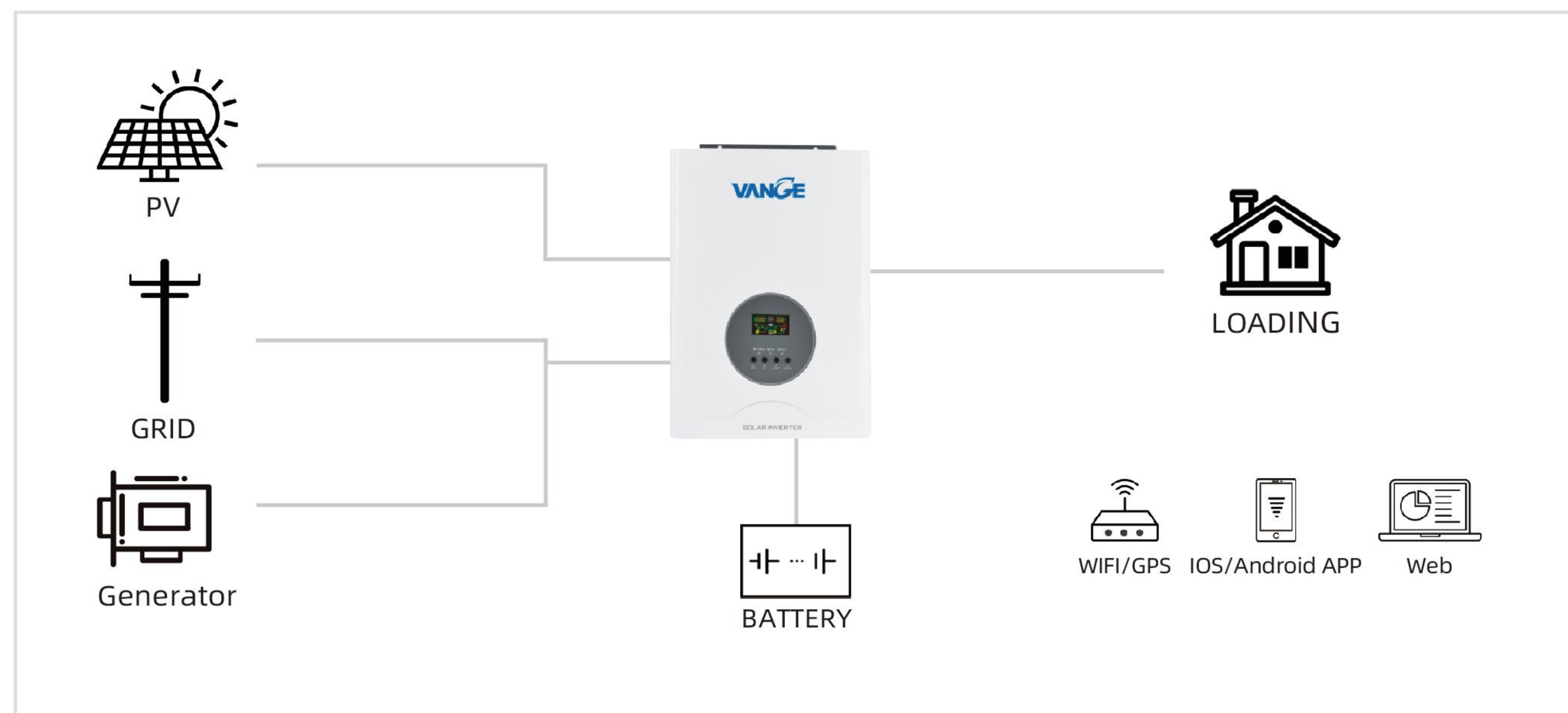
APPLICATION SCENARIOS



PRODUCTS FEATURE

- ★ Self design PCB board and cooling system
- ★ MPPT efficiency max 98%
- ★ Optional MPPT solar charge controller 120A
- ★ High Efficiency Design & Power Saving Mode to Conserve Energy
- ★ Auto Restart when Ac in recovering
- ★ Built in Transformer, overload and Ultra-high voltage protection
- ★ Support Parallel
- ★ Smart battery charger design for optimized battery performance
- ★ Available for many kinds of battery

SYSTEM TOPOLOGY



PRODUCTS FEATURE

A LEADING ESS TURNKEY SOLUTION PROVIDER AND MANUFACTURER **VANGE**

| Model | VG-INV-1k-OSW | VG-INV-1.3k-OSW | VG-INV-1.5k-OSW | VG-INV-2k-OSW | VG-INV-3k-OSW | VG-INV-3.8k-OSW | VG-INV-5k-OSW | VG-INV-6k-OSW | VG-INV-6.3k-OSW |
|------------------------------------|--|-----------------|-----------------|---------------|---------------|-----------------|---------------|---------------|-----------------|
| Input | | | | | | | | | |
| Capacity (VA) | 1kVA | 1.3kVA | 1.5kVA | 2kVA | 3kVA | 3.8kVA | 5kVA | 6kVA | 6.3kVA |
| Voltage (DC) | 12/24V | 12/24V | 12/24V | 12/24V | 24/48V | 24/48V | 24/48V | 24/48V | 24/48V |
| Nominal voltage | 220VAC/110VAC | | | | | | | | |
| Voltage range | 154-265VAC/77-135VAC | | | | | | | | |
| Frequency | 50-60Hz Auto sensing | | | | | | | | |
| Output | | | | | | | | | |
| Rated apparent power | 1kVA | 1.3kVA | 1.5kVA | 2kVA | 3kVA | 3.8kVA | 5kVA | 6kVA | 6.3kVA |
| Rated output power | 0.8kW | 1kW | 1.2kW | 1.6kW | 2.4kW | 3kW | 4kW | 4.8kW | 5kW |
| Rated output voltage | 220VAC/110VAC(±10%ups mode) | | | | | | | | |
| Rated AC frequency | 50/60Hz | | | | | | | | |
| Waveform | Pure sine wave | | | | | | | | |
| Switch time | <8ms | | | | | | | | |
| Output voltage regulation | 10%rms | | | | | | | | |
| Efficiency | >98% | | | | | | | | |
| Protection | | | | | | | | | |
| Input protection | Circuit Breaker | | | | | | | | |
| Output protection | Circuit Breaker | | | | | | | | |
| Battery | | | | | | | | | |
| Battery type | AGM-Deep Cycle,GEL,LIFEPO4 | | | | | | | | |
| | Up to 500Ah | | | | | | | | |
| Charging current | 20/10A | 25/13A | 30/15A | 35/18A | 30/15A | 35/18A | 40/20A | 58A | 58A |
| Low Level disconnect (Selectable) | 12V:(10V or 10.5V) / 24V:(20V or 21V) / 48V:(40V or 42V) | | | | | | | | |
| DC high voltage alarm and fault | 16V/32V/64V | | | | | | | | |
| DC high voltage recovery | 15V/30V/60V | | | | | | | | |
| Max. PV array power | 12V:800W/ 24V:1600W/ 48V:3200W | | | | | | | | |
| MPPT input voltage range | 12V:MPPT15-150VDC/ 24V:MPPT30-150VDC/ 48V:MPPT60-150VDC | | | | | | | | |
| Max. PV array open circuit voltage | 12V:MPPT150VDC/ 24V:MPPT150VDC/ 48V:MPPT150VDC | | | | | | | | |
| Max. solar charging current | 60A | | | | | | | | |
| Environment | | | | | | | | | |
| Operating temperature range | 0-40°C | | | | | | | | |
| Humidity | 0-95% ,Non condensing | | | | | | | | |
| Noise emission | <45dB | | | | | | | | |

* This parameter is the basic parameter of the product. Please contact your supplier for details when ordering.