

SPI series

All-in-one solar charge inverter

SPI-8K-U SPI-10K-U

Efficient

- Dual MPPT with up to 99.9% efficiency
- Up to 22A PV input current perfect for high power modules

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Solar Charger Controller up to 200A charging current
- Support for Li-ion battery BMS communication

Reliable

- Outputs high quality pure sine wave AC power
- 8-10kW load power to meet the needs of most households

Safety

- 360 degrees of security from hardware to software
- EU and North American safety approvals

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley tariff

Application scenario



House



Farm



Telecom



Countryside



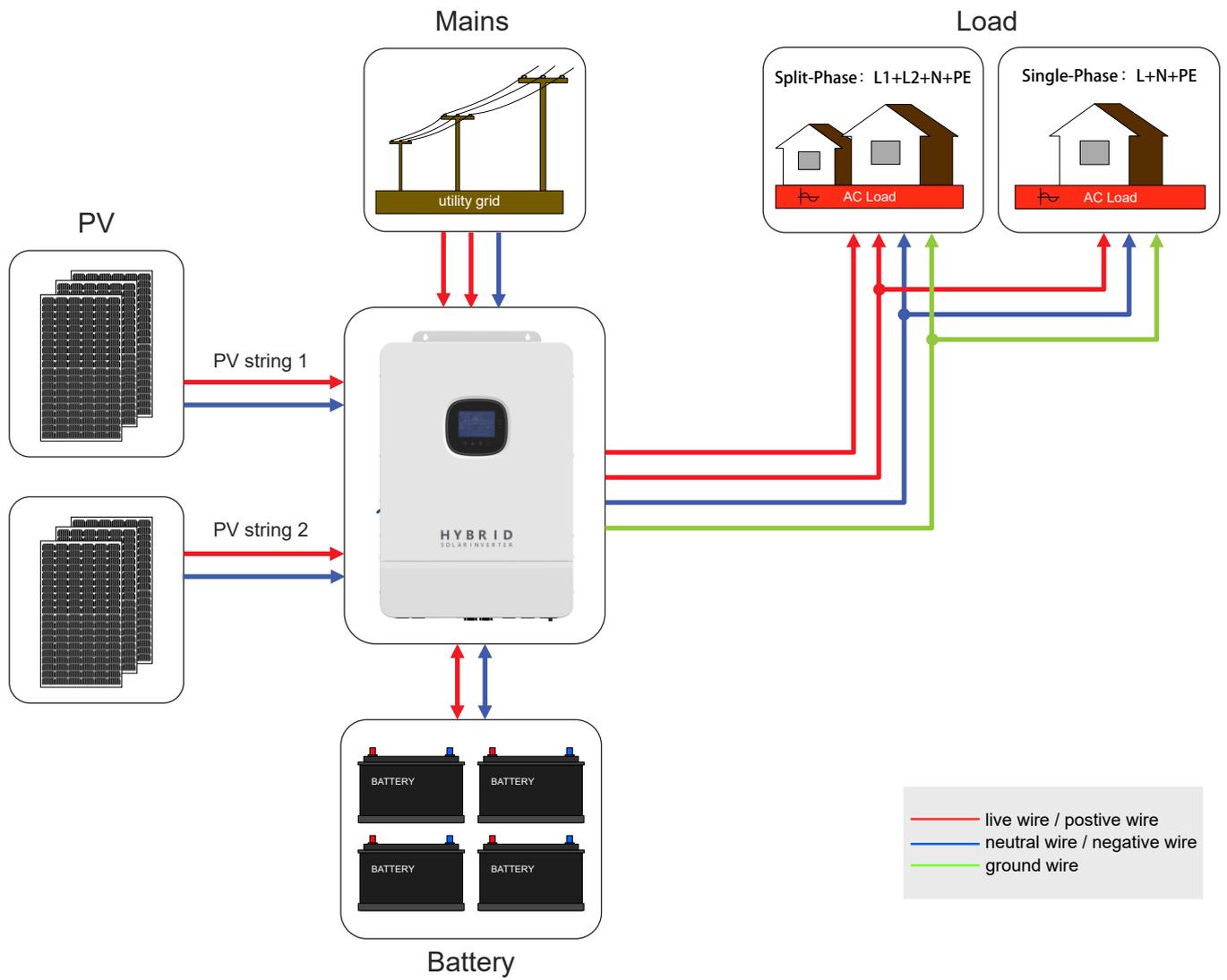
Island



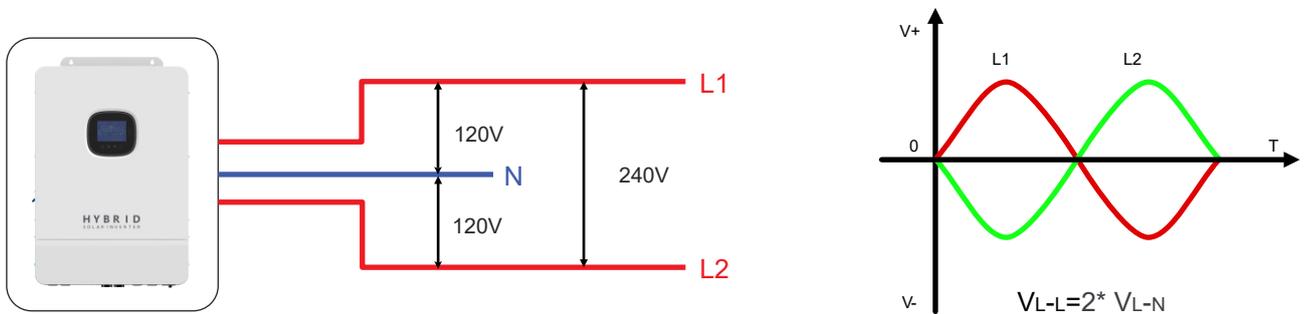
Pasture

| MODEL | SPI-8K-U | SPI-10K-U | CAN BE SET |
|----------------------------------|--|---------------|------------|
| INVERTER | | | |
| Rated Output Power | 8000W | 10000W | |
| Max.Peak Power | 16000W | 20000W | |
| Rated Output Voltage | 120/240Vac (L1/L2/N/PE split phase) | | Y |
| Load Capacity of Motors | 5HP | 6HP | |
| Rated AC Frequency | 50/60Hz | | Y |
| Waveform | Pure Sine Wave | | |
| Switch Time | 10ms (typical) | | |
| Parallel Capacity | / | | |
| BATTERY | | | |
| Battery Type | Li-ion / Lead-Acid / User Defined | | Y |
| Rated Battery Voltage | 48Vdc | | |
| Voltage Range | 40 ~ 60Vdc | | Y |
| Max.MPPT Charging Current | 200A | | Y |
| Max.Mains/Generator Charging | 100A | 120A | Y |
| Max.Hybrid Charging Current | 180A | 200A | Y |
| PV INPUT | | | |
| Num. of MPPT Trackers | 2 | | |
| Max.PV Array Power | 11000W | | |
| Max.Input Current | 22/22A | | |
| Max.Voltage of Open Circuit | 500Vdc | | |
| MPPT Voltage Range | 125~425Vdc | | |
| UTILITY/ GENERATOR INPUT | | | |
| Input Voltage Range | 90 ~ 140Vac | | |
| Frequency Range | 50/60Hz | | |
| Bypass Overload Current | 63A | | |
| EFFICIENCY | | | |
| MPPT Tracking Efficiency | 99.9% | | |
| Max. Battery Inverter Efficiency | 92% | | |
| General | | | |
| Dimensions | 620*435*130mm (2*1.4*0.4ft) | | |
| Weight | 20kg (44lb) | 21kg (46.3lb) | |
| Protection Degree | IP20, Indoor Only | | |
| Operating Temperature Range | -10~55°C, >45°C derated | | |
| Humidity | -25°C ~ 60°C | | |
| Cooling Method | Internal Fan | | |
| Warranty | 2Years | | |
| COMMUNICATION | | | |
| Embedded Interfaces | RS485/CAN/USB/ Dry contact | | Y |
| External Modules (Optional) | Wi-Fi / GPRS | | Y |
| CERTIFACATION | | | |
| Safety | IEC62109-1, IEC62109-2, UL1741 | | |
| RoHs | Yes | | |
| EMC | EN61000-6-1, EN61000-6-3, FCC 15 class B | | |

Schematic Diagram



AC Output Voltage Range



| Items | Description |
|----------------------------|------------------------------|
| Applicable Model | SPI series U model |
| Output Voltage Range (L-N) | 100~120V ac, 120V ac default |
| Output Voltage Range (L-L) | 200~240V ac, 240V ac default |