

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



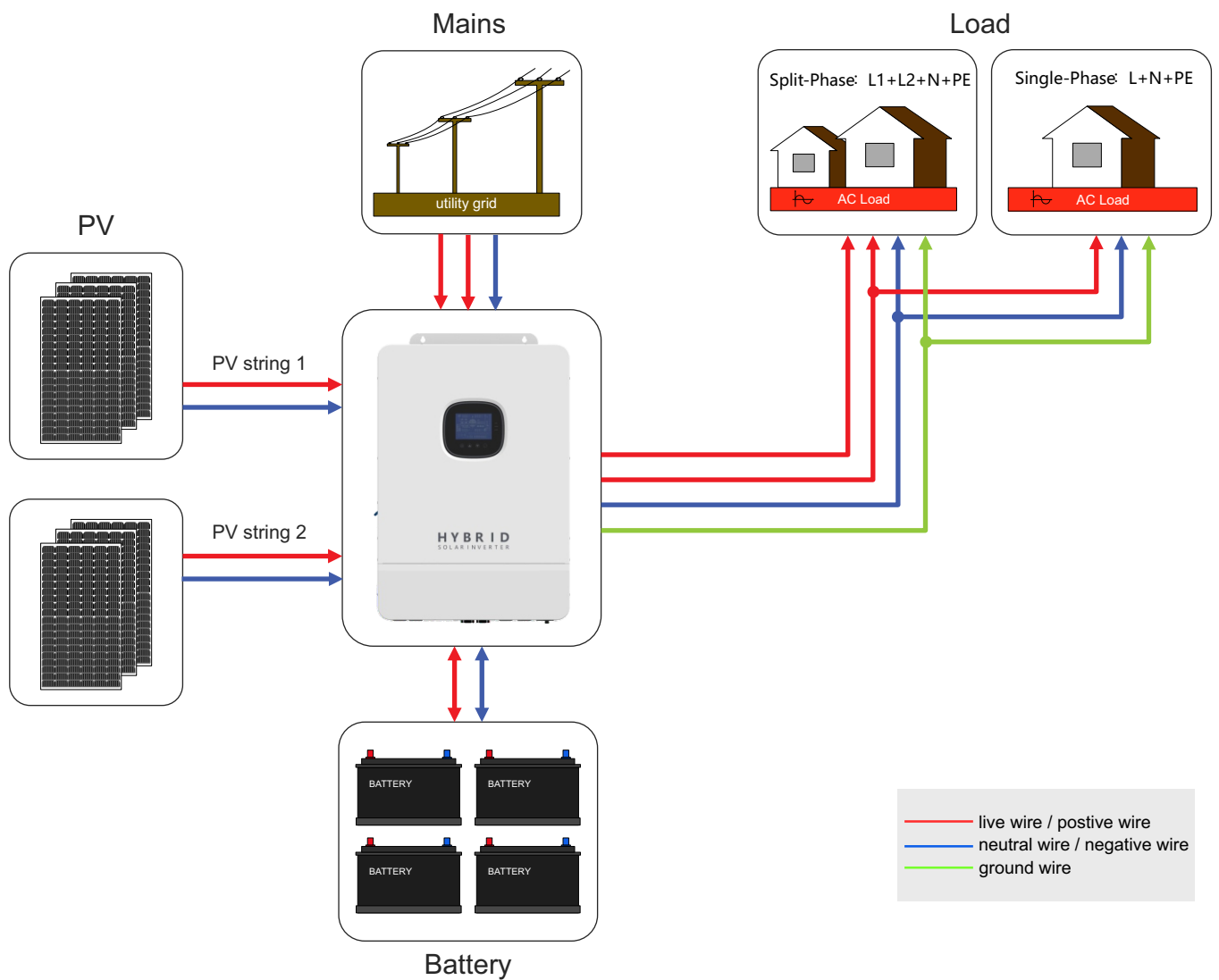
Island



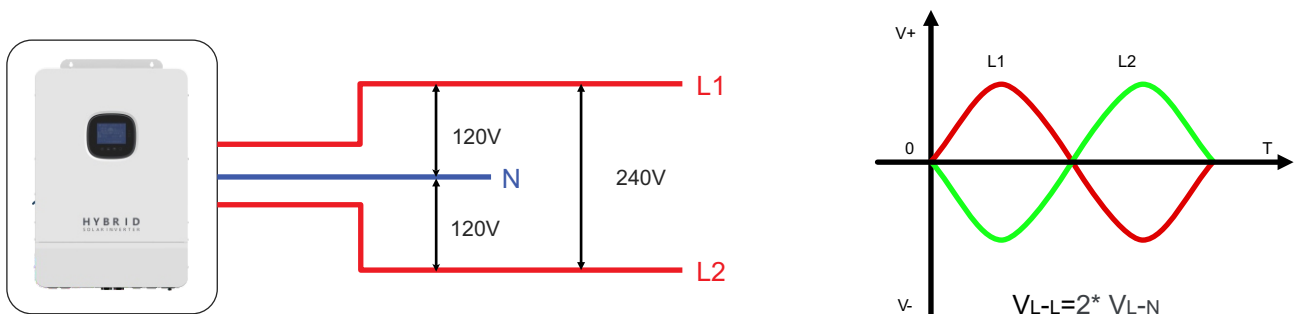
Pasture

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
CERTIFICATION			
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 ~ 120Vac, 120Vac default
Output Voltage Range (L-L)	200 ~ 240Vac, 240Vac default