



## ASF series

### All-in-one Solar Charger Inverter

ASF4880U200-H

ASF48100U200-H



#### / 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

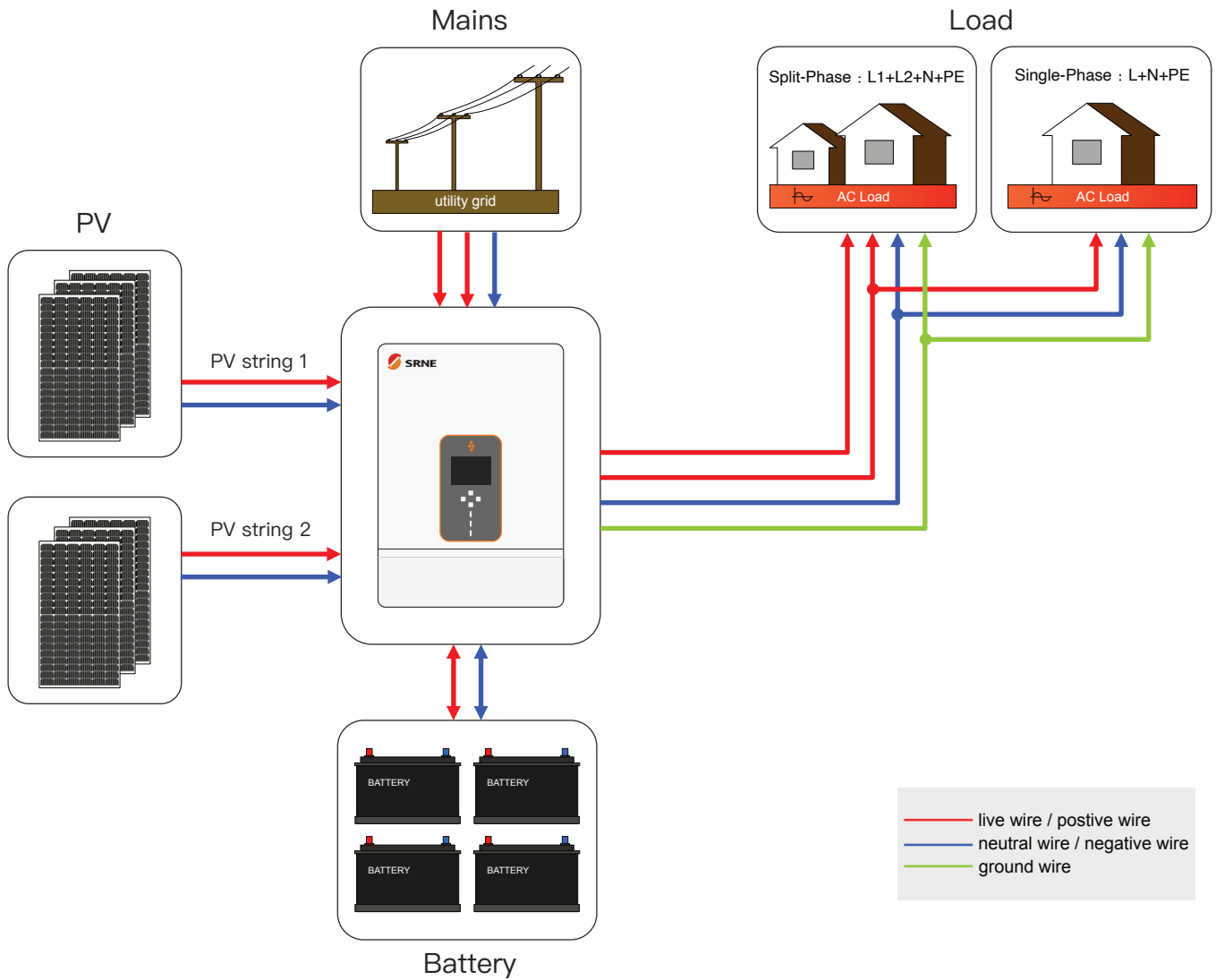
- 360 degrees of security from hardware to software
- EU and North American safety approvals

#### / Intelligent

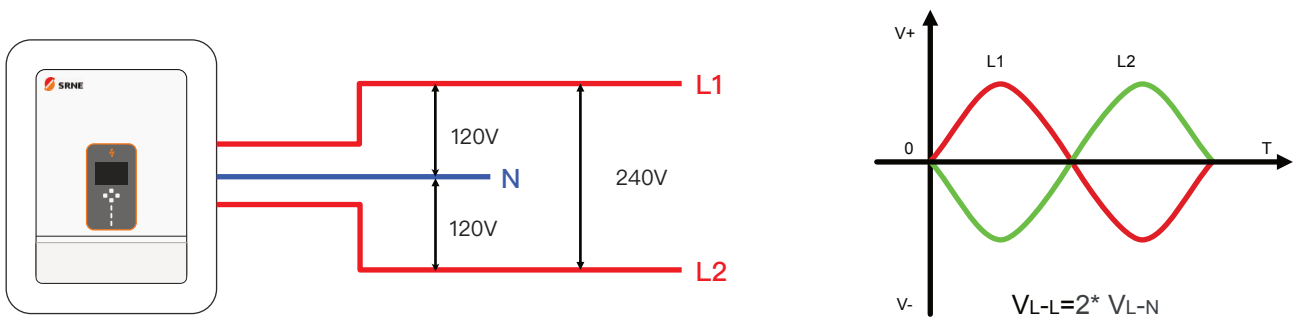
- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley tariff

MODEL	ASF4880U200-H	ASF48100U200-H	CAN BE SET
<b>INVERTER OUTPUT</b>			
Rated Output Power	8,000W	10,000W	
Max.Peak Power	16,000W	20,000W	
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	/		
<b>BATTERY</b>			
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 Current	100A	120A	Y
Max.Hybrid Charging Current	180A	200A	Y
<b>PV INPUT</b>			
Num. of MPP Trackers	2		
Max.PV array power	11,000W		
Max.input current	22/22A		
Max.Voltage of Open Circuit	500Vdc		
MPPT Voltage Range	125-425Vdc		
<b>MAINS / GENERATOR INPUT</b>			
Input Voltage Range	90-140Vac		
Frequency Range	50/60Hz		
Bypass Overload Current	63A		
<b>EFFICIENCY</b>			
MPPT Tracking Efficiency	99.9%		
Max. Battery Inverter Efficiency	92%		
<b>GENERAL</b>			
Dimensions	620*435*130mm (2*1.4*0.4ft)		
Weight	20kg (44lb)	21kg (46.3lb)	
Protection Degree	IP20, Indoor Only		
Operating Temperature Range	-15~55°C, >45°C derated (5~131°F, >113°F derated)		
Noise	<60dB		
Cooling Method	Internal Fan		
Warranty	2 Years		
<b>COMMUNICATION</b>			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		Y
External Modules (Optional)	Wi-Fi / GPRS		Y
<b>CERTIFICATION</b>			
Safety	IEC62109-1, IEC62109-2, UL1741		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		
RoHS	Yes		

## Schematic Diagram



## AC Output Voltage Range



Items	Description
Applicable Model	ASF series U model
Output Voltage Range (L-N)	100~120Vac, 120Vac default
Output Voltage Range (L-L)	200~240Vac, 240Vac default