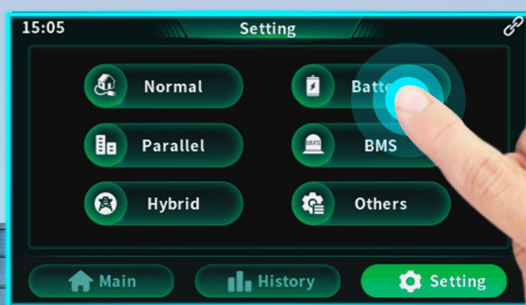




Joy Sunny Day With JSD

48V/12KW split-phase Hybrid Solar Inverter

(120/240V | 51.2V Battery)



Hybrid Solar Inverter 12KW



Efficient

- Dual MPPT with up to 99.9% efficiency
- Up to 27Ax2 PV input current perfect for high power modules



All-in-one

- Solar Charger Controller up to 250A charging current
- Support for Li-ion battery BMS communication



Safety

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



User-friendly

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



Reliable

- Outputs high quality pure sine wave AC power
- 12kW load power to meet the needs of most households
- Flexible to expand system power from 12-72KW



Intelligent

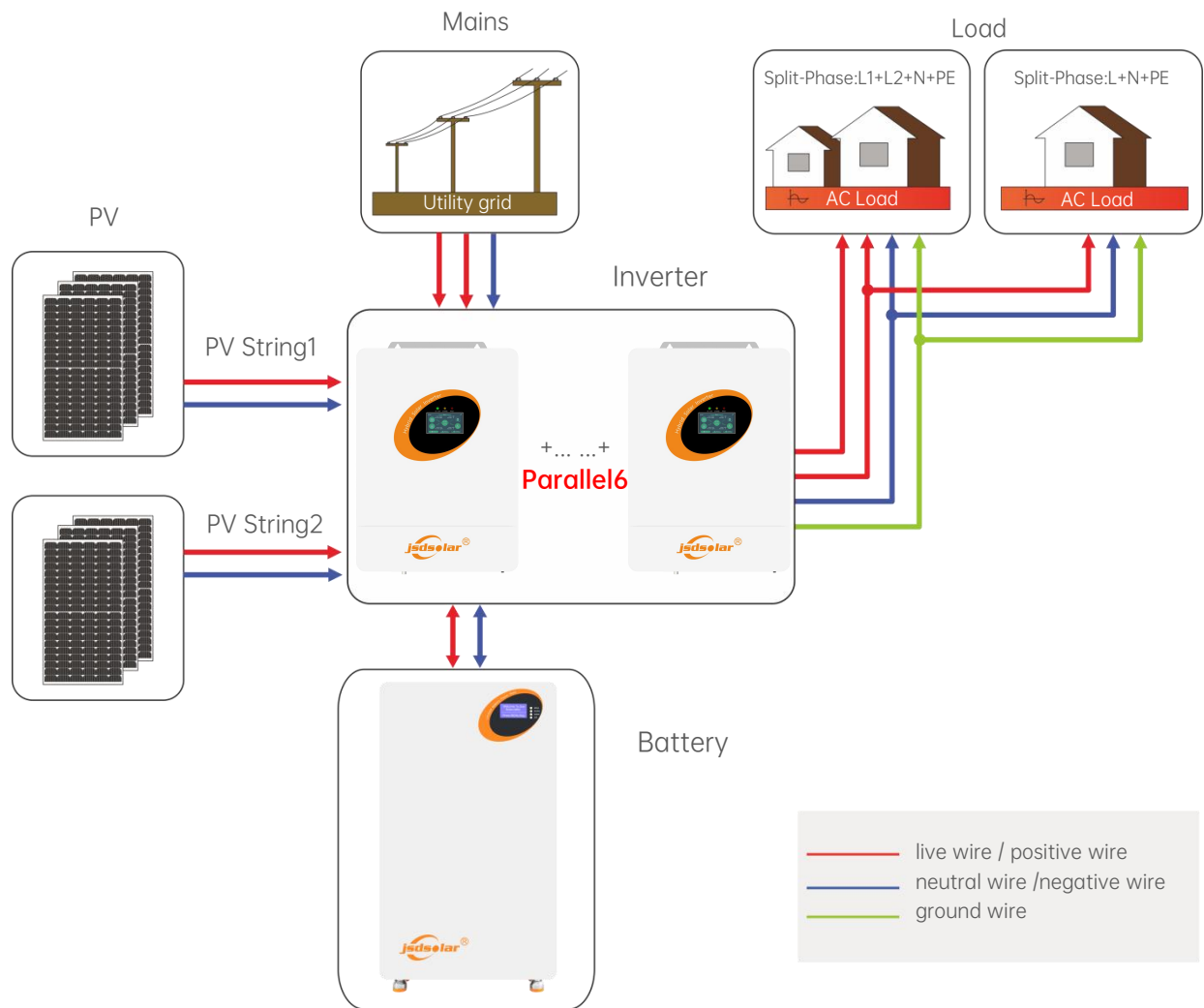
- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley tariff

Technical Data

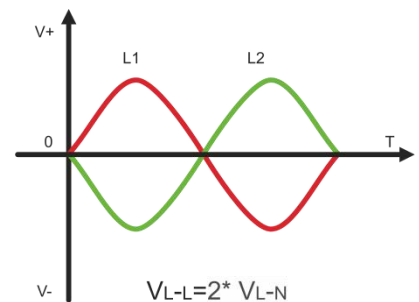
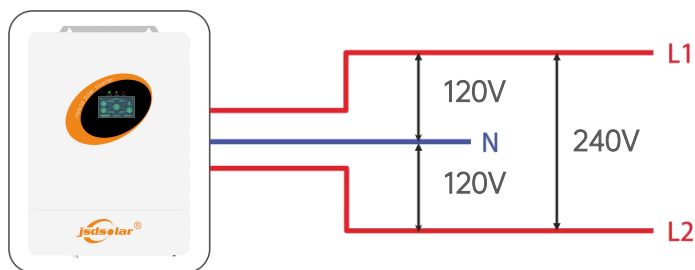
Models	JB12KLP
Parallel mode	
Permitted parallel number	1~6
AC mode	
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)
Input phase voltage range	(85Vac~140Vac)±2%
Frequency	50Hz/60Hz (Auto detection)
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);
Overload/ short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (typical)
AC reverse protection	Yes
Maximum bypass phase overload current	2pole, 60A/60A(L1/L2)
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	Split phase: 12000
	Single phase: 7200 (limited by the wiring terminals)
Rated output power (W)	Split phase: 12000
	Single phase: 7200 (limited by the wiring terminals)
Power factor	1
Rated output voltage (Vac)	120Vac (L1/N, L2/N)/240Vac(L1/L2)
Output voltage error	±5%
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum Efficiency	>91%
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ±5%: report error and turn off the output after 5 seconds;
Peak power	Split phase: 18000VA
	Single phase: 18000VA
Loaded motor capability	6HP
Output short circuit protection	Can protect, after continuous short circuit for 1 second
Bypass circuit breaker phase specification	2pole, 63A/63A(L1/L2)
Rated battery input voltage	51.2V (Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc (Under voltage alarm/shutdown voltage/over voltage alarm /over voltage recovery... settable on LCD screen)

Power saving mode self-consumption	Load per phase is null or less than 25W enter power-saving mode
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current(can be set)	160A
Charge current error	±5Adc
Charge voltage range	40 – 58.6Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker phase specifications	2pole, 60A/60A(L1/L2)
PV charging	
Number of MPPT groups	2
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	90Vdc~485Vdc
MPPT voltage range	90Vdc~450Vdc
Battery voltage range	40-58.6Vdc
Maximum PV input power	9000W+9000W
Maximum PV input current	27A+27A
PV charge current(can be set)	250A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC charger+PV charger)	
Max charger current(can be set)	0-250A
Certified specifications	
Certification	UL1741
EMC certification level	FCC part15, CLASS B
Operating temperature range	-10°C to 55°C(>45°C derating)
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	USB/RS485(/WiFi/GPRS)/ Dry node control
Size (L*W*D)	620mm*450mm*132mm
Weight (kg)	23.8

System 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

