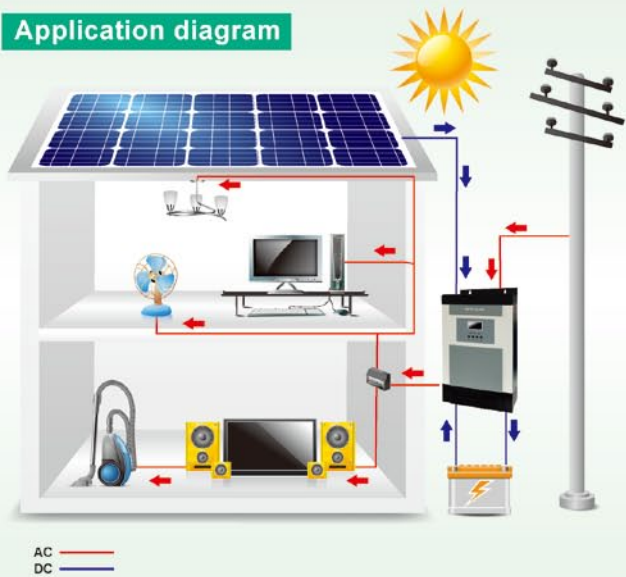


SP2000 Brilliant~ 5000 Brilliant

SP Brilliant Series



Application diagram



Features

- Pure sine wave inverter
- Parallel connection capability (Optional for SP5000 Brilliant)
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority
- Compatible to mains voltage or generator power
- Auto restart as AC recovers
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

Specifications

MODEL	SP2000 Brilliant	SP3000 Brilliant	SP5000 Brilliant
Rated Power	2000VA/1200W	3000VA/2400W	5000VA/4000W
INPUT			
Voltage	120 VAC	230 VAC	
Selectable Voltage Range	95-140 VAC (For Personal Computers) 65-140 VA (For Home Appliances)	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	110/120VAC ± 5%	230VAC ± 5%	
Surge Power	4000VA	6000VA	10000VA
Peak Efficiency	90%		
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)		
Waveform	Pure sine wave		
BATTERY			
Battery Voltage	48 VDC		
Floating Charge Voltage	54 VDC		
Low Battery Alarm Voltage	42 VDC		
Shutdown Voltage	40 VDC		
Overcharge Protection	60 VDC		
Maximum Utility Charging Current	10A	15 A	60 A
SOLAR CHARGER			
Maximum PV Rated Power	3000W		
Maximum PV Array Open Circuit Voltage	145Vdc		
MPPT Operation Voltage Range	60~115Vdc		
Maximum Charging Current	60A		
Standby Power Consumption	2W		
JOINT UTILITY AND SOLAR CHARGING			
Maximum Charging Current	60A		120A
PHYSICAL			
Dimension (D X W X H)	140 x 295 x 479mm		140 x 295 x 540mm
Net Weight	11.5kgs		13.5kgs
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	0°C - 55°C		
Storage Temperature	-15°C - 60°C		

Specifications are subject to change without notice.

* SP5000 Brilliant can be installed in parallel, and total capacity can reach 30KVA (Transfer time is 30ms in parallel operation)

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