

SP Brilliant Series

SP Brilliant series provides a friendly PV power integration with a PV maximum charging current that reaches up to 80A or 120A.

Enjoy more solar energy with a simple solution.



Configurable AC/Solar Input Priority



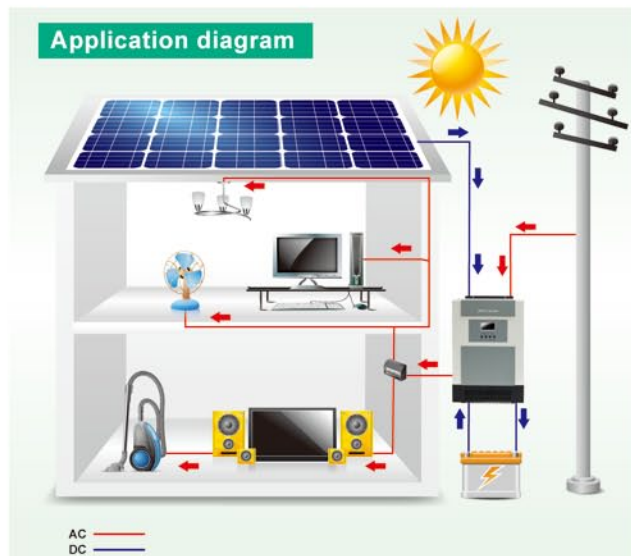
Parallel Operation



Smart battery charger design

Features

- Pure sine wave inverter
- Built-in solar charger: PWM/MPPT
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority
- Compatible with mains or generator power
- Auto-restart as AC recovers
- Overload and short circuit protection
- Smart battery charger design for battery performance optimization
- Cold start function
- Parallel application (optional)
- Operation without battery (Brilliant Ultra only)



Specifications

MODEL	SP5000 Brilliant Plus	SP5000 Brilliant Ultra
Rated Power	5000VA/5000W	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	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)	230VAC ± 5%	
Surge Power	10000VA	
Peak Efficiency	90%	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
Overload Capacity	10s for 110%~150% load 5s for ≥150% load	
BATTERY		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC (maximum 58Vdc)	
Low Battery Alarm Voltage	42 VDC	
Shutdown Voltage	40 VDC	
Overcharge Protection	60 VDC (maximum 66 VDC)	
Reverse Polarity Protection	Yes	
SOLAR CHARGER & AC CHARGER		
PV Maximum Input power	6000W	4500W
Maximum PV Array Open Circuit Voltage	145Vdc	450Vdc
PV Array MPPT Voltage Range	60~115Vdc	120~430Vdc
Maximum Solar Charging Current	120A	80A
Maximum AC Charging Current	60 A	
Maximum Charging Current	180A	80A
PHYSICAL		
Dimension (D×W×H)	186× 29×507mm	120×295×468mm
Net Weight	16kgs	11kgs
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.

* All SP5000 Brilliant Series can be installed in parallel with maximum up to 9 units, and total capacity can reach 45KVA (Transfer time is 30ms in parallel operation)

