

SP3000 Brilliant~ 5000 Brilliant / Plus

## SP Brilliant Series

SP Brilliant Series enhances the built-in MPPT solar charger with higher capacity.

With larger solar charger, the maximum charging current will reach 80A or 120A.

Enjoy more solar energy with a simply solution.

### Features

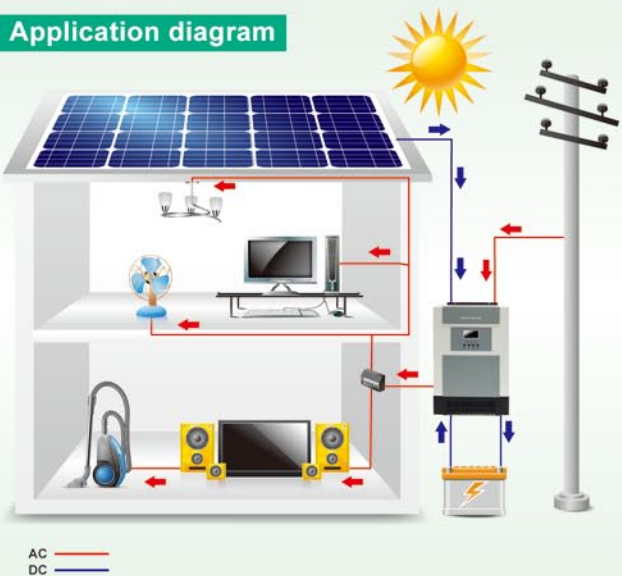
- Pure sine wave inverter with PF1
- Built-in MPPT solar charger
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority
- Compatible to mains voltage or generator power
- Auto restart as AC recovers
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel connection capability, totally connected up to 9 inverters (Optional for SP5000 Brilliant & SP5000 Brilliant Plus)



### Specifications

MODEL	SP3000 Brilliant	SP5000 Brilliant	SP5000 Brilliant Plus
<b>Rated Power</b>	3000VA/3000W	5000VA/5000W	5000VA/5000W
<b>INPUT</b>			
<b>Voltage</b>	230 VAC		
<b>Selectable Voltage Range</b>	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)		
<b>Frequency Range</b>	50 Hz/60 Hz (Auto sensing)		
<b>OUTPUT</b>			
<b>AC Voltage Regulation (Batt. Mode)</b>	230VAC ± 5%		
<b>Surge Power</b>	6000VA	10000VA	
<b>Peak Efficiency</b>	90%		
<b>Transfer Time</b>	10 ms (For Personal Computers) 20 ms (For Home Appliances)		
<b>Waveform</b>	Pure sine wave		
<b>Overload Capacity</b>	10s for 110%~150% load 5s for ≥150% load		
<b>BATTERY</b>			
<b>Battery Voltage</b>	48 VDC		
<b>Floating Charge Voltage</b>	54 VDC		
<b>Low Battery Alarm Voltage</b>	42 VDC		
<b>Shutdown Voltage</b>	40 VDC		
<b>Overcharge Protection</b>	60 VDC		
<b>Maximum Utility Charging Current</b>	15 A		60 A
<b>Reverse Polarity Protection</b>	Yes		
<b>SOLAR CHARGER</b>			
<b>Maximum PV Rated Power</b>	3000W	4000W	6000W
<b>Built-in MPPT Tracker</b>	1pcs	1pcs	2pcs
<b>Maximum PV Array Open Circuit Voltage</b>	145Vdc		
<b>MPPT Operation Voltage Range</b>	60~115Vdc		
<b>Maximum Charging Current</b>	60A	80A	120A
<b>Standby Power Consumption</b>	2W		
<b>Reverse Polarity Protection</b>	Yes		
<b>JOINT UTILITY AND SOLAR CHARGING</b>			
<b>Maximum Charging Current</b>	60A	140A	180A
<b>PHYSICAL</b>			
<b>Dimension (D×W×H)</b>	140 × 295 × 479mm	120 × 295 × 468mm	194 × 295 × 455mm
<b>Net Weight</b>	11.5kgs	12.5kgs	16kgs
<b>OPERATING ENVIRONMENT</b>			
<b>Humidity</b>	5% to 95% Relative Humidity (Non-condensing)		
<b>Operating Temperature</b>	0°C - 55°C		
<b>Storage Temperature</b>	-15°C - 60°C		

### Application diagram



Specifications are subject to change without notice.

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

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