



# SP Brilliant Series

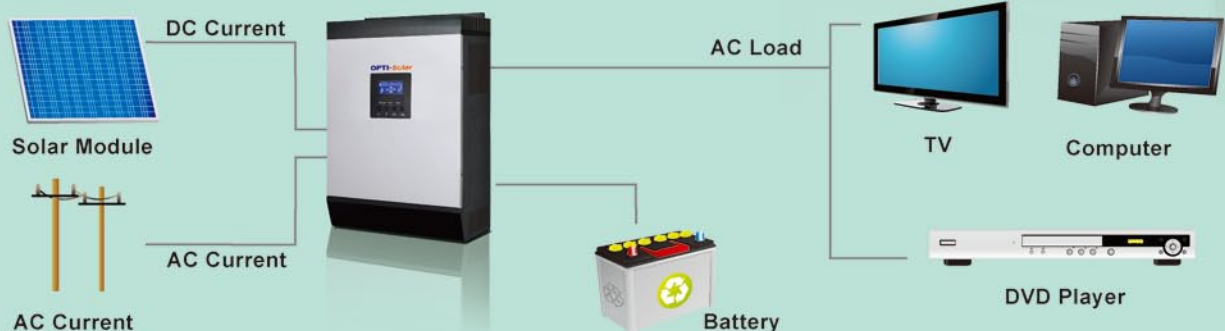
SP3000 Brilliant / SP5000 Brilliant

## Features

- Pure sine wave inverter
- 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 via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function



## APPLICATION DIAGRAM





## SP Brilliant Series

SP3000 Brilliant / SP5000 Brilliant



### Specifications

MODEL	SP3000 Brilliant	SP5000 Brilliant
<b>Rated Power</b>	3000VA / 2400W	5000VA / 4000W
<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 ± 15%	
<b>Surge Power</b>	6000VA	10000VA
<b>Efficiency (Peak)</b>	90%	
<b>Transfer Time</b>	10 ms (For Personal Computers)	
	20 ms (For Home Appliances)	
<b>Waveform</b>	Pure sine wave	
<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 Charge Current</b>	10 A or 15 A	20 A or 30 A
<b>SOLAR CHARGER</b>		
<b>Maximum PV Rated Power</b>	3000W	
<b>Maximum PV Array Open Circuit Voltage</b>	145Vdc	
<b>MPPT Operation Voltage Range</b>	60~115Vdc	
<b>Maximum Charging Current</b>	60A	
<b>Standby Power Consumption</b>	2W	
<b>PHYSICAL</b>		
<b>Dimension (D X W X H)</b>	140 x 295 x 479mm	140 x 295 x 540mm
<b>Net Weight</b>	11.5kgs	13.5kgs
<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	

\* Product specifications are subject to change without further notice  
 \* SP5000 Brilliant can be Installed in parallel, maximum up to 20KVA

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