

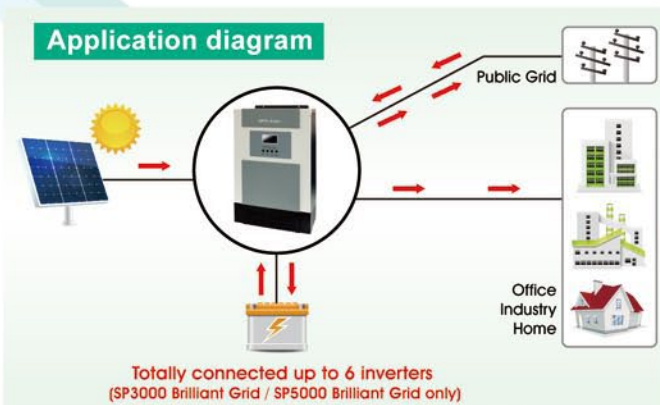
SP2000 ~ SP5000 Brilliant Grid

## SP Brilliant Grid

SP Brilliant Grid provide hybrid configuration of PV & Utility.

With grid feed-in function, people can enjoy the extremely flexible power.

Automatically find the most simple and economical operation.



### Specifications

MODEL	SP2000 Brilliant Grid	SP3000 Brilliant Grid	SP5000 Brilliant Grid
<b>RATED OUTPUT POWER</b>	2000W	3000W	5000W
<b>PV INPUT (DC)</b>			
Max. PV Power	2000W	4000W	6000W
Max. PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC
MPPT Range @ Operating Voltage	30 VDC~115 VDC	60 VDC~115 VDC	60 VDC~115 VDC
Number of MPP Tracker	1	1	2
<b>GRID-TIE OPERATION</b>			
<b>GRID OUTPUT (AC)</b>			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 265 VAC		
Nominal Output Current	8.7A	13A	21.7A
Power Factor Range	>0.99		
Maximum Conversion Efficiency (DC to AC)	90%		
<b>OFF-GRID, HYBRID OPERATION</b>			
<b>GRID INPUT</b>			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Rating of AC Transfer Relay	30A	40A	
<b>BATTERY MODE OUTPUT (AC)</b>			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure Sine Wave		
Efficiency (DC to AC)	93%		
<b>BATTERY &amp; CHARGER</b>			
Nominal DC Voltage	24 VDC	48 VDC	48 VDC
Maximum Charging Current (from Grid)	60A		
Maximum Charging Current (from PV)	80A	80A	120A
Maximum Charging Current	140A	140A	180A
<b>GENERAL</b>			
Dimension (D×W×H)	100×300×440 mm	120×295×468 mm	190×295×483 mm
Net Weight	8kgs	11kgs	16kgs
<b>INTERFACE</b>			
Parallel-able	None	Yes	
Communication	USB or RS232/Dry-Contact		
<b>ENVIRONMENT</b>			
Humidity	0 ~ 90% RH (No condensing)		
Operating Temperature	0 to 50°C		

Specifications are subject to change without notice.

### Features

- Pure sine wave output
- Feed-in to the grid function
- Programmable supply priority for PV, Battery or Grid
- Adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-Grid and Grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units (3kva & 5kva model only)
- Built-in 1 or 2 strings of MPPT solar charge controller
- Compatible to mains utility or generator power

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