

SP1000 ~SP5000 Initial-P/-M

## SP Initial Series

Keep high value with economy, SP Initial Series allow you easily to use solar energy.

User friendly, high-efficiency and reliable.

Enjoy the green life.

### Features

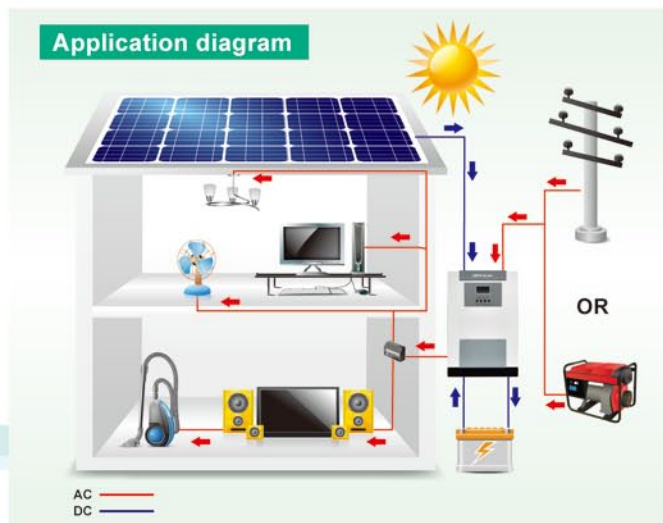
- Pure sine wave inverter with PF1
- Selectable high power charging current
- Compatible to mains voltage or generator power
- Smart battery charger design for optimized battery performance
- Built-in solar charge controller
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- USB communication port



SP1000~SP5000 Initial-P  
SP3000~SP5000 Initial-M

SP1000~SP2000 Initial-M

### Application diagram



### Specifications

MODEL	SP1000 Initial-P	SP2000 Initial-P	SP3000 Initial-P	SP5000 Initial-P	SP1000 Initial-M	SP2000 Initial-M	SP3000 Initial-M	SP3000 Initial-M II	SP5000 Initial-M
<b>Rated Power</b>	1000VA/1000W	2000VA/2000W	3000VA/3000W	5000VA/5000W	1000VA/1000W	2000VA/2000W	3000VA/3000W	3000VA/3000W	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>	2000VA	4000VA	6000VA	10000VA	2000VA	4000VA	4000VA	6000VA	10000VA
<b>Peak Efficiency</b>	93%								
<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>	12 VDC	24 VDC	48 VDC	48 VDC	12 VDC	24 VDC	48 VDC	48 VDC	48 VDC
<b>Floating Charge Voltage</b>	13.5 VDC	27 VDC	54 VDC	54 VDC	13.5 VDC	27 VDC	54 VDC	54 VDC	54 VDC
<b>Overcharge Protection</b>	16 VDC	33 VDC	63 VDC	63 VDC	16 VDC	33 VDC	63 VDC	63 VDC	63 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>									
<b>Maximum PV Array Open Circuit Voltage</b>	50VDC	80VDC	105VDC	105VDC	102VDC	100VDC	145VDC	145VDC	145VDC
<b>Operation Voltage Range</b>	18~20VDC	30~32VDC	60~72VDC	60~72VDC	N/A	N/A	N/A	N/A	N/A
<b>PV Array MPPT Voltage Range</b>	N/A	N/A	N/A	N/A	15~80VDC	30~80VDC	30~80VDC	60~115VDC	60~115VDC
<b>Maximum Solar Charging Current</b>	50A				40A				60A
<b>Maximum AC Charging Current</b>	20A	25A	60A	60A	20A	25A	60A	60A	120A
<b>Maximum Charging Current</b>	50A	70A	110A	110A	60A	60A	120A	120A	120A
<b>PHYSICAL</b>									
<b>Dimension (D×W×H)</b>	88×225×315mm	100×285×334mm	100×300×440mm	100×300×440mm	88×225×315mm	100×285×334mm	100×300×440mm	100×300×440mm	100×300×440mm
<b>Net Weight</b>	4.4kgs	5kgs	6.5kgs	9kgs	4.4kgs	5kgs	6.3kgs	9.5kgs	9.7kgs
<b>OPERATING ENVIRONMENT</b>									
<b>Humidity</b>	5% to 95% Relative Humidity (Non-condensing)								
<b>Operating Temperature</b>	-10°C ~ 55°C								
<b>Storage Temperature</b>	-15°C ~ 60°C								

Specifications are subject to change without notice.

OPTI-Solar Asia:  
Tel: +886-2-2246-7272  
Fax: +886-2-2246-7310  
info@opti-solar.com

OPTI-Solar USA:  
Tel: +1-909-869-5700  
Fax: +1-909-869-5730  
info@opti-solar.com

OPTI-Solar Middle East:  
Tel: +9714-8819-838  
Fax: +9714-8819-938  
info@opti-solar.com

OPTI-Solar Europe B.V.:  
Tel: +31-40-2628057  
Fax: +31-402546006  
info@opti-solar.com