

SP6000-11000 Handy Ultra

# SP Handy Ultra Series

Dual output design with high output capacity.  
Perfect for inductive loads.



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**Dual Output**  
(SP8000 Handy Ultra (SP11000 Handy Ultra only))
-   
**Dual Input**  
(SP11000 Handy Ultra only)
-   
**Detachable LCD Display** only
-   
**BMS**
-   
**Wi-Fi**
-   
**Parallel Operation**

## Features

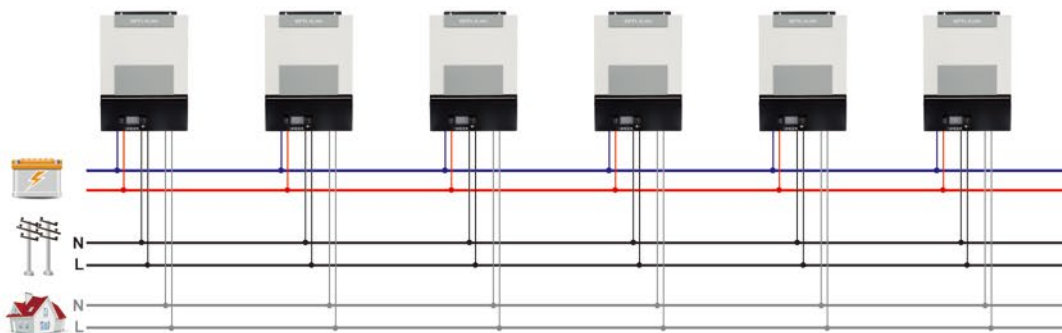
- High PV input range
- Feasible for without-battery operation
- Built-in anti-dust kit
- Selectable high power charging current
- Compatible with mains or generator power
- Replaceable fan design for easy maintenance
- Overload and short circuit protection
- Smart battery charger design for battery performance optimization
- Cold start function
- Wi-Fi function
- Detachable LCD
- Parallel Operation of up to 6 units

The inverter could simultaneously connect to the city power and solar panels, and operate without interference from one another. The inverters can operate normally.



## Parallel Operation

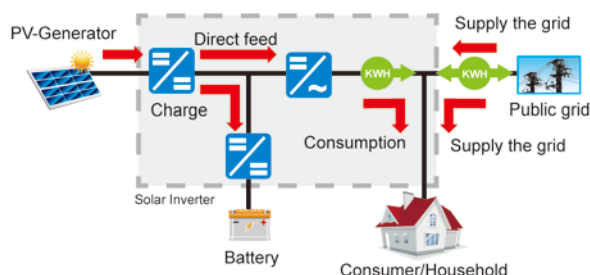
Maximum 6 units in parallel



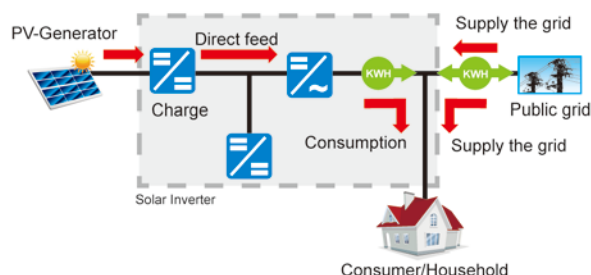
# SP Handy Ultra Series

## Operation Diagram:

Operation with battery



Operation without battery



## Specifications

MODEL	SP6000 Handy Ultra	SP8000 Handy Ultra	SP11000 Handy Ultra
Rated Power	6000VA/6000W	8000VA/8000W	11000VA/11000W
<b>INPUT</b>			
Voltage	120 VAC	230 VAC	
Selectable Voltage Range	90-140 VAC (For Personal Computers) 80-140 VAC (For Home Appliances)	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/ 60 Hz (Auto sensing)	50 Hz/ 60 Hz (Auto sensing)	
<b>OUTPUT</b>			
AC Voltage Regulation (Batt. Mode)	120VAC ± 5%	230VAC ± 5%	
Surge Power	12000VA	16000VA	22000VA
Peak Efficiency	93%		
Transfer Time	15 ms (For Personal Computers)		10 ms (For Personal Computers)
Waveform	20 ms (For Home Appliances) Pure sine wave		
<b>BATTERY</b>			
Battery Voltage	48 VDC		
Floating Charge Voltage	54 VDC		
Overcharge Protection	66 VDC		
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
Maximum PV Array Power	8000W (4000W MPPT×2)		11000W (5500W MPPT×2)
Maximum PV Array Open Circuit Voltage	250Vdc	500Vdc	
PV Array MPPT Voltage Range	90~230Vdc	90~430Vdc	90~450Vdc
Maximum Solar Charging Current	120A	120A	150A
Maximum AC Charging Current	120A	120A	150A
Maximum Charging Current	120A	120A	150A
Maximum PV Input Current	27A		
Maximum PV Input Short Circuit Current	30A		
<b>PHYSICAL</b>			
Dimension (D×W×H)	147.5× 432.5×553.5mm		
Net Weight	18.4kgs		
Communication Port	RS232/USB/Dry-contact/Wi-Fi		
<b>OPERATING ENVIRONMENT</b>			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	-10°C ~ 55°C		
Storage Temperature	-15°C ~ 60°C		

Specifications are subject to change without notice.

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