

SP30000 Premium

## SP Premium Series

True Hybrid Solar Inverter with Energy Storage



Grid Tie



Monitoring software



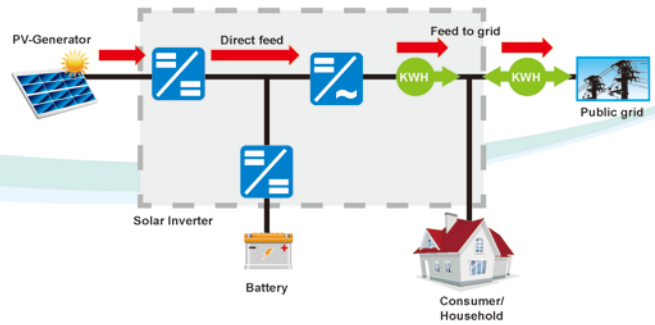
Parallel operation



### Features

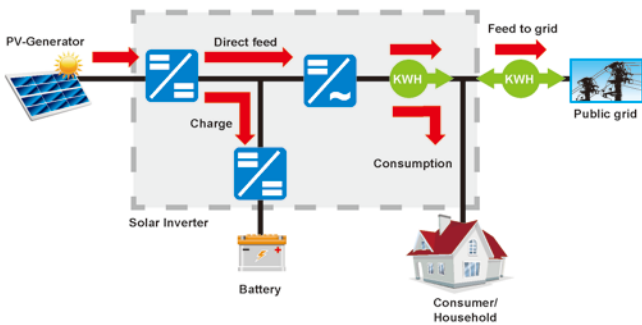
- Pure sine wave output 3-phase inverter
- Programmable supply priority for PV, battery, or grid
- True galvanic isolation transformation design
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel Operation of up to 4 units

No consumption from household and the battery is fully charged

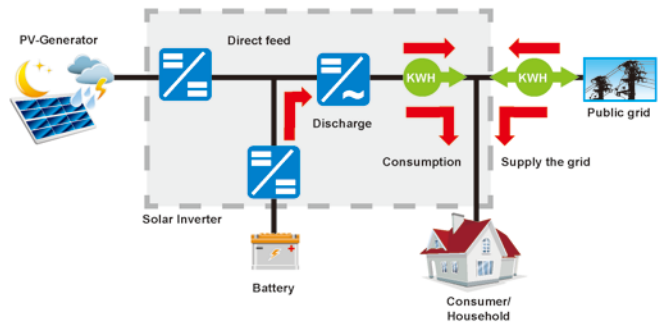


### Operation Diagram:

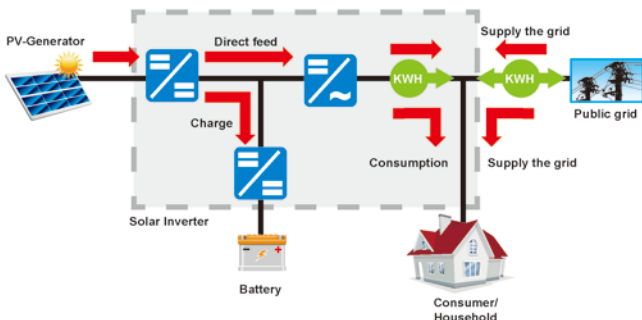
Enough PV Energy Input



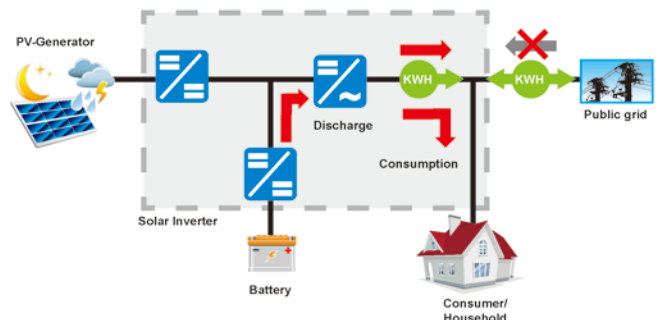
No PV energy and battery is fully discharged



Household's consumption is higher than supply from PV

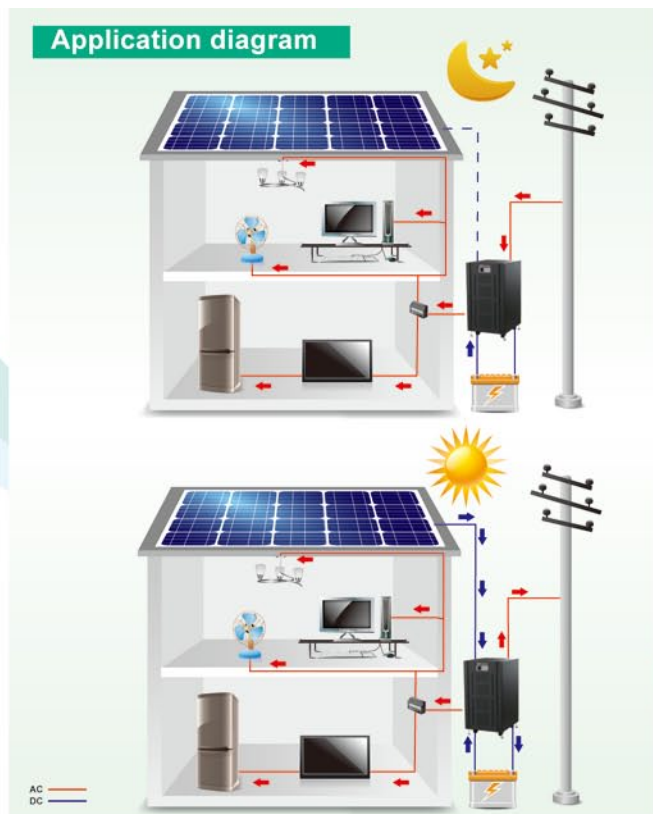


No PV energy and the consumption from household is supplied by battery



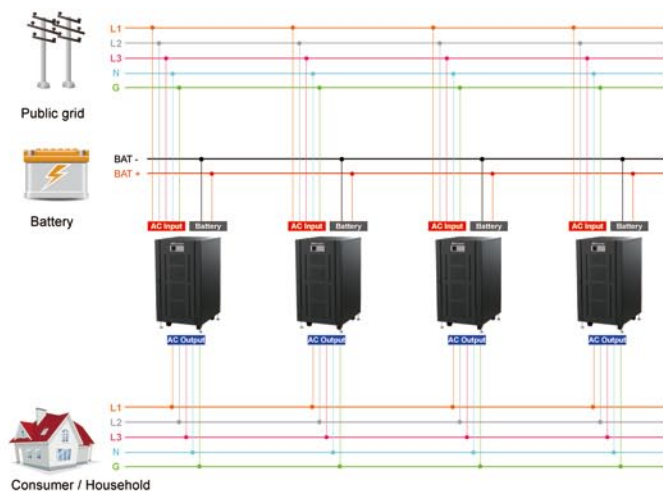
SP30000 Premium

## SP Premium Series



### Parallel Operation

Maximum up to 4pcs



### Specifications

<b>MODEL</b>	SP30000 Premium
<b>Rated Output Power</b>	30KW
<b>Maximum Charging Power</b>	30KW
<b>PV INPUT (DC)</b>	
<b>Maximum DC Power</b>	45KW
<b>Nominal DC Voltage/ Maximum DC Voltage</b>	720 VDC / 950 VDC
<b>Start-up Voltage / Initial Feeding Voltage</b>	500 VDC / 550 VDC
<b>MPP Voltage Range</b>	500 VDC ~ 900 VDC
<b>Number of MPP Trackers / Maximum Input Current</b>	1 / 72A
<b>GRID OUTPUT (AC)</b>	
<b>Nominal Output Voltage</b>	230VAC* (P/N) / 400 VAC (P-P)
<b>Output Voltage Range</b>	184-265 VAC per phase
<b>Output Frequency Range</b>	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
<b>Nominal Output Current</b>	43.5A per phase
<b>Power Factor</b>	> 0.99
<b>EFFICIENCY</b>	
<b>Maximum Conversion Efficiency (DC/AC)</b>	95%
<b>AC INPUT</b>	
<b>AC Start-up Voltage / Auto Restart Voltage</b>	150-170VAC per phase / 180VAC per phase
<b>Acceptable Input Voltage Range</b>	170-280VAC per phase
<b>Maximum AC Input Current</b>	43.5A per phase
<b>BATTERY MODE OUTPUT (AC)</b>	
<b>Nominal Output Voltage</b>	230VAC* (P/N) / 400 VAC (P-P)
<b>Output Waveform</b>	Pure Sinewave
<b>Efficiency (DC to AC)</b>	>91%
<b>BATTERY &amp; CHARGER</b>	
<b>Nominal DC Voltage</b>	384VDC
<b>Maximum Charging Current</b>	80A
<b>PHYSICAL</b>	
<b>Dimension (D×W×H)</b>	715×430×1021mm
<b>Net Weight</b>	223kg
<b>INTERFACE</b>	
<b>Communication Port</b>	RS-232/USB
<b>Intelligence Slot</b>	Optional SNMP, GPRS, WIFI, Modbus cards available
<b>ENVIRONMENT</b>	
<b>Humidity</b>	0 ~ 90% RH (Non-Condensing)
<b>Operating Temperature</b>	-10°C to 55°C
<b>Altitude</b>	0 ~ 1000 m**

Specifications are subject to change without notices.

\*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

\*\*Power derating 1% every 100m when altitude is over 1000m.

OPTI-Solar Asia:  
Tel: +886-2-2246-7272  
Fax: +886-2-2246-7312

OPTI-Solar USA:  
Tel: +1-909-869-5700  
Fax: +1-909-869-5730

OPTI-Solar Middle East:  
Tel: +9714-8819-838  
Fax: +9714-8819-938

OPTI-Solar Europe B.V.:  
Tel: +31-40-2628050