

SP Giant is a powerful three-phase Hybrid solar inverter with DSP digital control technology.

It is combined double-conversion, MPPT control & multi-level control technology.

Perfectly for medium-sized / large-scale residential, commercial and industrial PV applications.



SP Giant Series

SP40000 Giant~ SP120000 Giant



Power Centralized



MPPT Modularized



Touch Screen



DATA Record



SP80K Giant~SP120K Giant

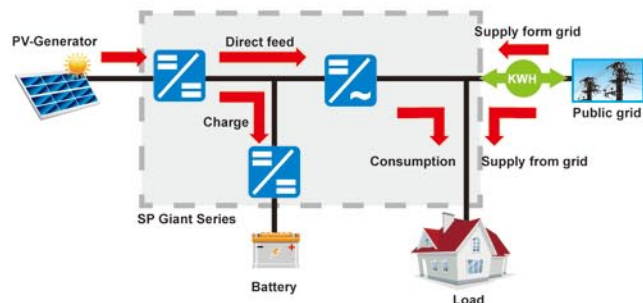
SP30K Giant~SP60K Giant

Features

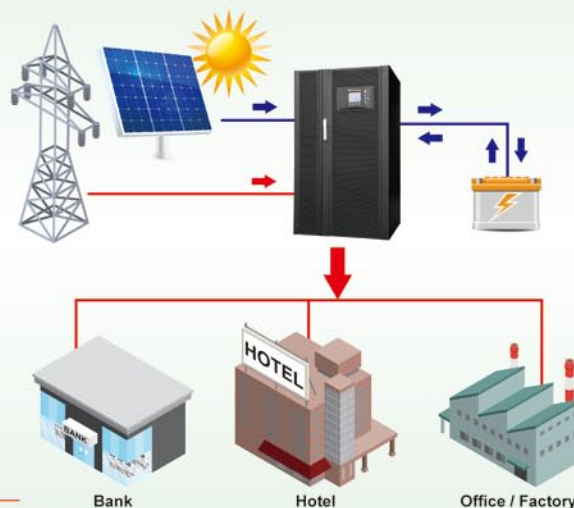
- High-Speed DSP digital control
- Full-bridge inverter control technology to secure 100% unbalanced loads
- Hot-swap modularized PV multi-chargers
- Built-in AC rectifier auto-regulated Grid power for charging battery & supplying the load
- Intelligent power supply function extends the battery life
- Multiple communication interface: RS232 / RS485 / Dry Contact

Operation Diagram:

Load is higher than supply from PV



Application diagram



SP Giant Series



Specifications

MODEL	SP40K Giant	SP60K Giant	SP80K Giant	SP100K Giant	SP120K Giant
Rated Power	40KVA / 36KW	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW
INPUT					
AC Voltage	380 VAC ± 20%				
Frequency Range	50 / 60 Hz ± 5 Hz (settable)				
Maximum Efficiency DC/AC	92%		93%		
OUTPUT					
AC Voltage Regulation (Batt. Mode)	380 VAC ± 1%				
Output Frequency	50 / 60 Hz ± 1% (Auto sensing)				
Peak Efficiency	92%				93%
Transfer Time (Inverter to Bypass)	0 ms				
Waveform	Pure sine wave				
Peak Factor	1:3				
Overload Capacity	≥ 105%~110% for 1 h, ≥ 110%~125% for 10 min, ≥ 125%~150% for 1min, ≥ 150% shut down in 10 s, ≥ 200% shut down immediately				
BATTERY					
Rated Battery Voltage	360 VDC				
Floating Charging Voltage	410 VDC (Default)				
Equalization Charging Voltage	415 VDC (Default)				
Shutdown Voltage	315 VDC				
Maximum Solar Charging Current	120A	180A	240A	300A	360A
Maximum AC Charging Current	50 A	75 A	160 A	200 A	250 A
SOLAR CHARGER & AC CHARGER					
PV Maximum Input Power	25KW×2	25KW×3	25KW×4	25KW×5	25KW×6
PV Module Slot	3	4	6	8	
Maximum PV Array Open Circuit Voltage	750VDC				
PV Array MPPT Voltage Range	400~450VDC				
PV Array Input Current	120A	180A	240A	300A	360A
Max. Conversion Efficiency	98%				
PHYSICAL					
Dimension (W×D×H)	600×700×1750mm		960×800×1700mm		
PackageDimension (W×D×H)	690×790×1850mm		1040×890×1750mm		
Weight	430kg	515kg	760kg	800kg	860kg
COMMUNICATION					
Interface	RS232 / RS485 / SNMP (Option)				
Dry contact	Overload / Low battery Voltage / Bypass / Fault				
OPERATING ENVIRONMENT & OTHERS					
Humidity	10% to 90% Relative Humidity(Non-condensing)				
Operating Temperature	0°C - 40°C				
Altitude	1% reduced of rated power per 100m, maximum 4000m				
IP Level	IP20				
Noise	65dB				

Specifications are subject to change without notices.

