

SP Premium Plus Series

SP Premium Plus is the advanced model suitable for outdoor design.

It can be operated in a harsh environment condition, such as high humidity / high temperature (up to 60°C).

Long life span and less maintenance.



Water & Dustproof



Parallel Operation



BMS Function



Wi-Fi

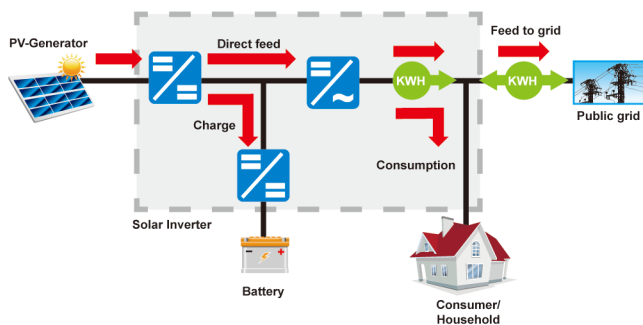


Features

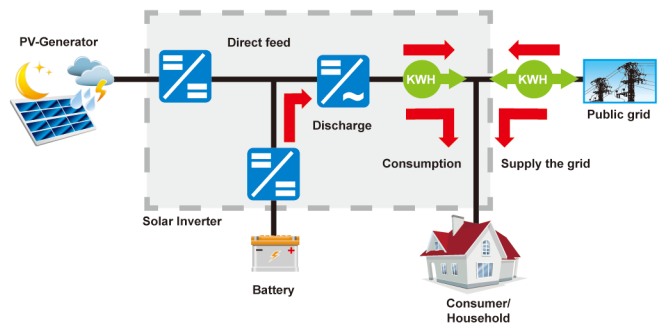
- IP65 outdoor design
- 150% unbalanced load support
- Dual output selected as programmable output or Generator input
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in Wi-Fi for the APP monitoring
- Built-in BMS Function
- Maximum charging up to 80A adjustable
- Parallel operation up to 4 units

Operation Diagram:

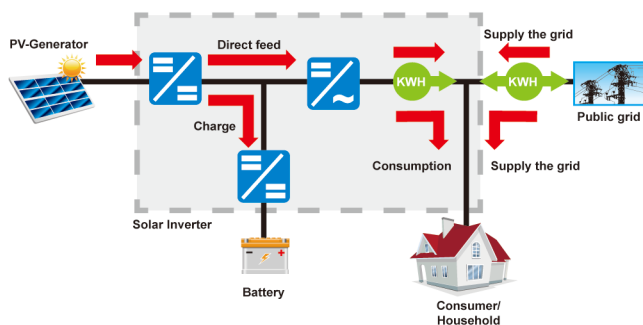
Enough PV Energy Input



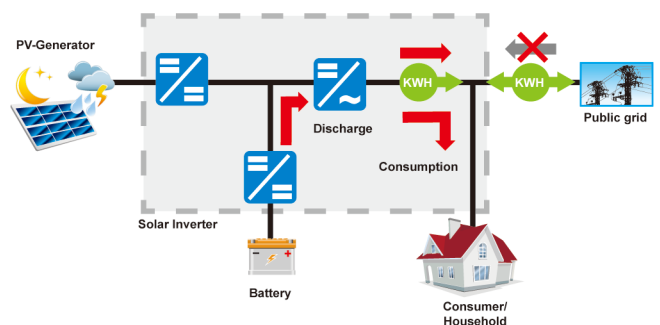
No PV energy and battery is fully discharged



Household's consumption is higher than supply from PV

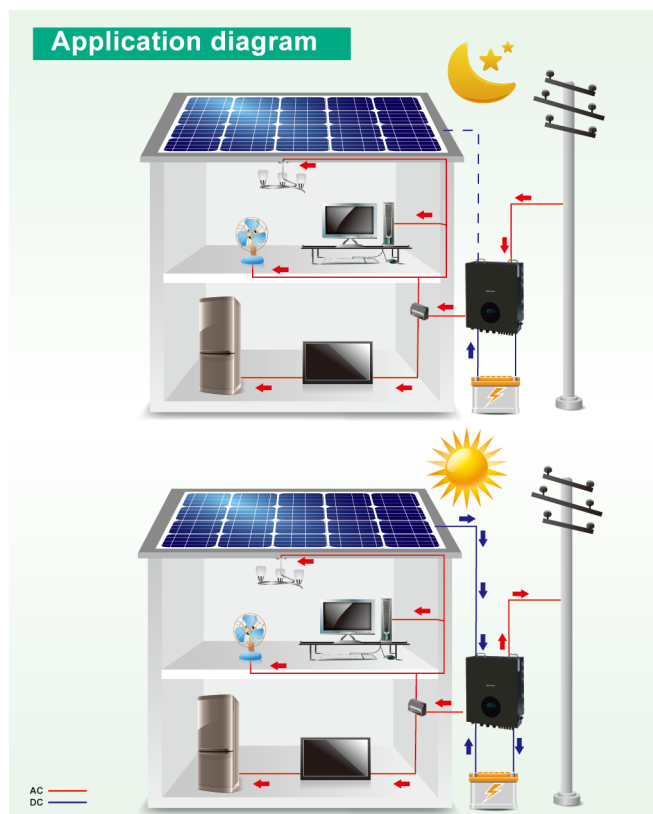


No PV energy, and the consumption from household is supplied by battery



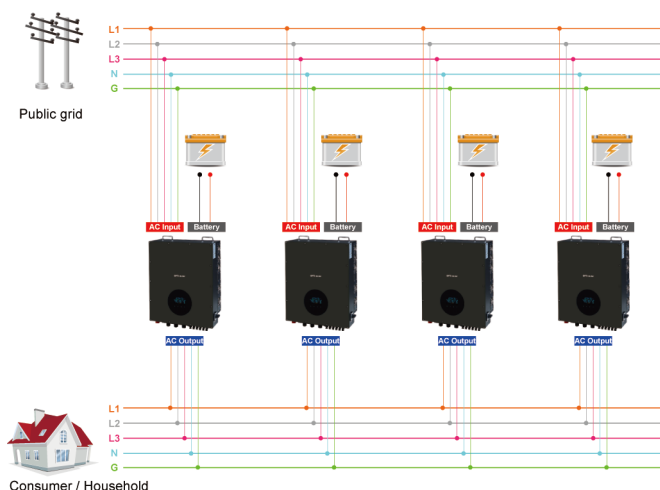
SP Premium Plus Series

Application diagram



Parallel Operation

Maximum up to 4pcs



Specifications

MODEL	SP30000 Premium Plus	SP50000 Premium Plus
Rated Output Power	30KW	50KW
Maximum Charging Power	30KW	50KW
PV INPUT (DC)		
Maximum DC Power	40KW	65KW
Nominal DC Voltage/ Maximum DC Voltage	720 VDC / 1000 VDC	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	320 VDC / 350 VDC
MPP Voltage Range	600-1000VDC	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / 26A	4 / 32A
GRID OUTPUT (AC)		
Nominal Output Voltage	230VAC* (P/N) / 400 VAC (P-P)	
Output Voltage Range	184-265 VAC per phase	
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz	
Nominal Output Current	43.5 A per phase	
Power Factor	0.9 lag to 0.9 lead	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	96.5%	
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120-140 VAC per phase / 180 VAC per phase	
Acceptable Input Voltage Range	170-280 VAC per phase	
Maximum AC Input Current	43.5 A per phase	73 A per phase
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230VAC* (P/N) / 400 VAC (P-P)	
Efficiency (DC to AC)	>96%	
BATTERY & CHARGER		
Nominal DC Voltage	500 VDC ~ 900 VDC	500 VDC ~ 800 VDC
Maximum Charging Current	50A	65A
PHYSICAL		
Dimension (D×W×H)	255 × 660 × 750 mm	
Net Weight	73 kg	110 kg
INTERFACE		
Communication Port	RS-232/USB	
Intelligence Slot	Optional SNMP, GPRS, Wi-Fi, Modbus cards available	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-Condensing)	
Operating Temperature	-10°C to 55°C	
Altitude	0 ~ 1000 m**	

** Power derating 1% every 100m when altitude is higher than 1000m. Specifications are subject to change without notice.