

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

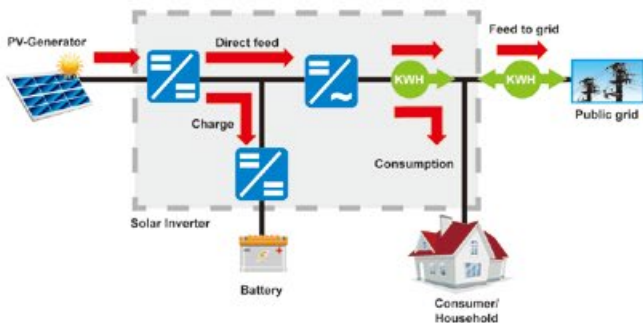


Features

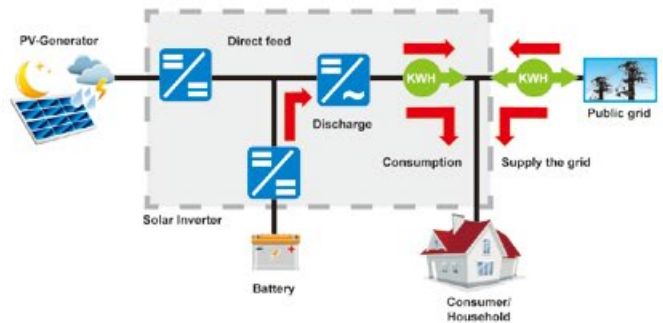
- IP65 outdoor design
- 150% unbalanced load support
- Dual output selected as programmable output or Generator input
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in Wi-Fi for the APP monitoring
- Built-in BMS Function
- Maximum charging up to 80A adjustable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

Operation Diagram:

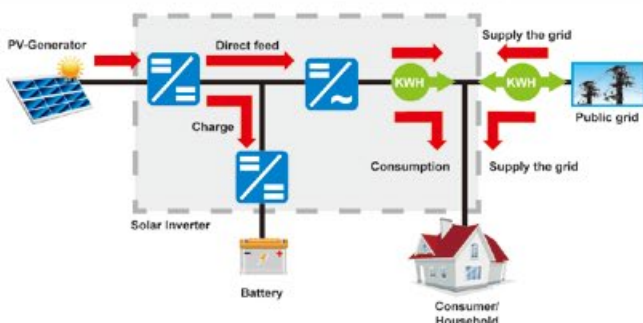
Enough PV Energy Input



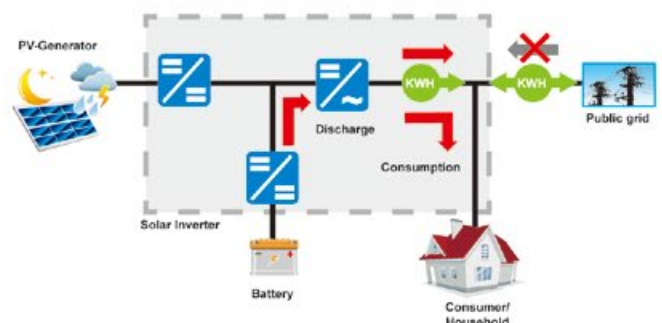
No PV energy and battery is fully discharged



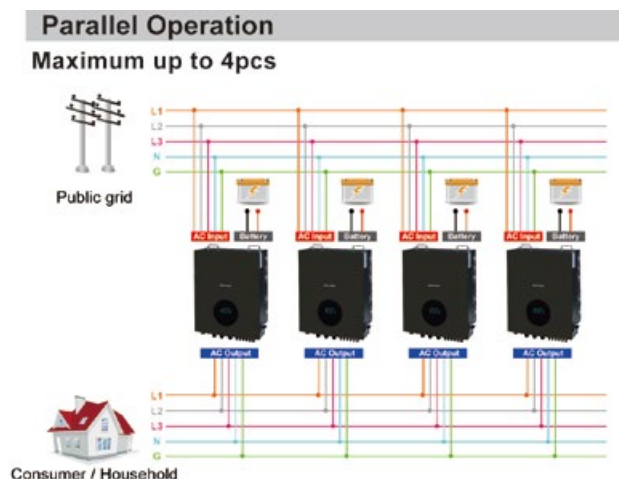
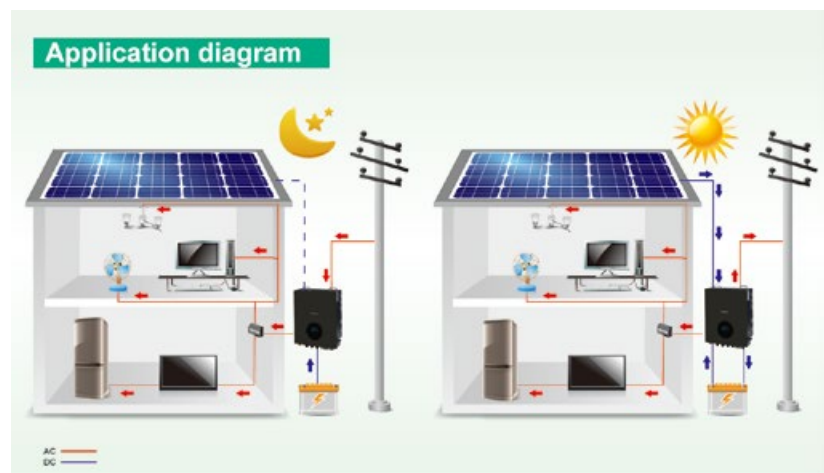
Household's consumption is higher than supply from PV



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



SP Premium Plus Series



Specifications

MODEL	SP15000 Premium Plus	SP30000 Premium Plus	SP50000 Premium Plus
Rated Output Power	15KW	30KW	50KW
Maximum Charging Power	15KW	30KW	50KW
PV INPUT (DC)			
Maximum DC Power	22.5KW	40KW	65KW
Nominal DC Voltage/ Maximum DC Voltage	720 VDC / 1000 VDC		
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC		
MPP Voltage Range	350 VDC ~ 900 VDC		
Number of MPP Trackers / Maximum Input Current	2 / 26A	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%		
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	21.7 A per phase	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)	91%		
BATTERY & CHARGER			
Nominal DC Voltage	40 VDC ~ 60 VDC	500 VDC ~ 900 VDC	500 VDC ~ 800 VDC
Maximum Charging Current	300A	50A	65A
PHYSICAL			
Dimension (D×W×H)	255 × 660 × 750 mm		
Net Weight	78kg	73 kg	110 kg
INTERFACE			
Communication Port	RS-232 / USB / Wi-Fi / BMS (RS485 & CAN)		
Intelligence Slot	Optional SNMP, GPRS, and 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.

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