



SP520 PLUS Series Off-Grid Solar Inverter



DC 120V~500V: 3.5KW~5.5KW

Applications

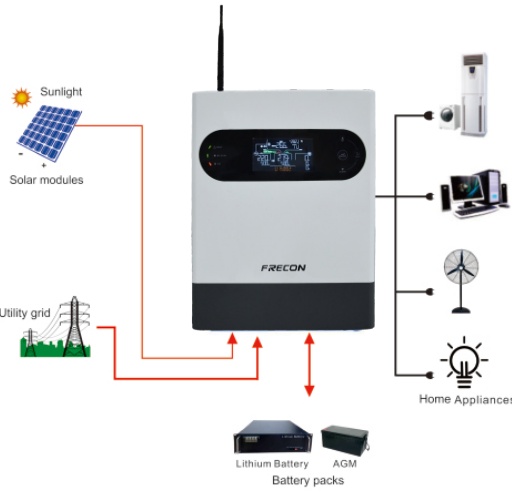
SP520 Plus series are pure sine solar inverters, built-in 120–450V MPPT PV controller, support battery-free start, compatible with mains or generator power configurable AC/solar charger priority, with complete short-circuit protection, over-under Voltage protection, overload protection, etc.



Features

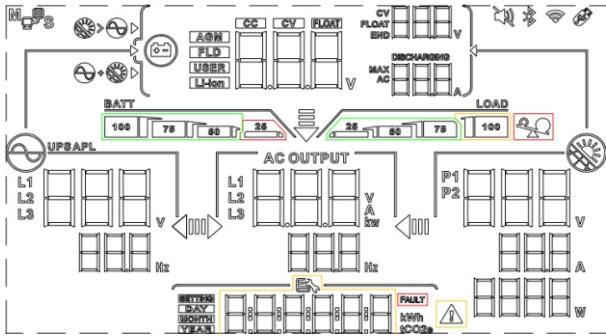
Solar and grid power the load at the same time

Inverter can supply power to the load from solar power or grid power without battery connected



Convenient LCD operation

User can set up parameters through LCD panel easily to improve inverter performance



Supports BMS

Standard with BMS communication port, intelligent battery charging design to extend battery life



Support mobile APP monitoring inverter

Built in WIFI module for mobile APP monitoring



Configurable output source priority

Configurable AC/Solar Charger Priority

With complete short circuit protection, over voltage protection, overload protection, etc.

Support no battery start

Technical Parameters

Model	SP520-3500-24H PLUS	SP520-5500-48H PLUS
Rated Power	3500VA	5500VA
AC Input		
Rated Input Current	220/230/240VAC	
Working Voltage Range	170-280VAC (personal computer); 90-280VAC (household appliances)	
Frequency	50Hz/60Hz (automatic detection)	
Output		
Rated Output Voltage (Vac)	220/230/240VAC	
Surge Power	6000VA	10000VA
Efficiency (Peak)	98%	
Conversion Time	10ms (personal computer); 20ms for household appliances	
Battery And AC Input Charging Specifications		
Battery Voltage	24VDC	48VDC
Float Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum Charging Current	80A	80A
Solar Charging Specifications		
Maximum PV DC Input Power	5000W	6000W
MPPT Working Voltage Range	120-450VDC	120-450VDC
Maximum PV Open Circuit Voltage	500VDC	500VDC
Maximum Charging Current	100A	
Physical Specifications		
Dimensions D*W*H(mm)	134*311*416	
Net Weight (Kg)	9	10
Communication Interface	RS232/WIFI	
Working Environment		
Humidity	5%-95% relative humidity (no frost)	
Operating Temperature	-10°C~50°C	
Storage Temperature	-15°C~60°C	