

**FRECON**

**SP520**

**HYBRID OFF-GRID SOLAR INVERTER**



FRECON ELECTRIC (SHENZHEN) CO.,LTD

# SP520 HYBRID OFF-GRID SOLAR INVERTER

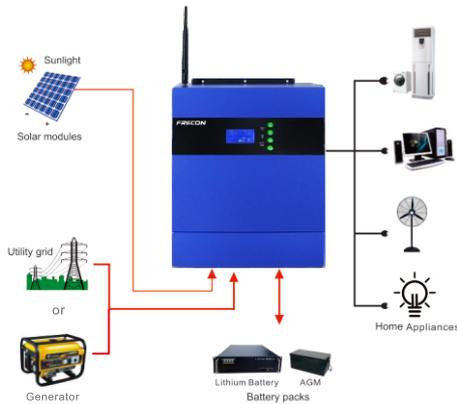
## Features

- Pure sine wave solar inverter
- Configurable output source priority
- Configurable AC/Solar charger priority
- Built-in 120-450V MPPT solar charger controller
- Support no battery operation function
- Compatible to grid power or generator power
- Standard built-in WIFI module, through mobile APP to monitor and control the inverter
- With complete short-circuit, over-voltage, under-voltage, overload protection, etc.
- Dry contact linked with battery status

## Advantages

### Solar and grid share power together

Inverter support solar power and grid power to supply the load at the same time



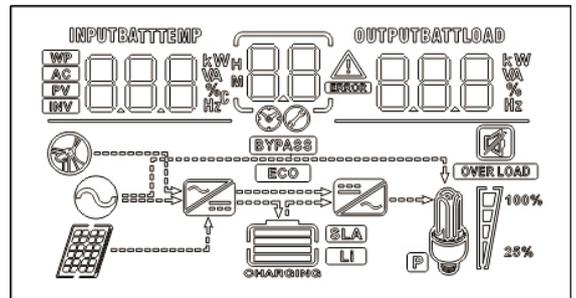
### Supports BMS

Standard with BMS communication port, intelligent battery charging design to extend battery life(8KW/11KW)



## Convenient LCD operation

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



## Support mobile APP monitoring inverter

Built in WIFI module for mobile APP monitoring



Model	SP520-3500-24H	SP520-5500-48H	SP520-8000-48H	SP520-11000-48H
Rated power	3500VA	5500VA	8000VA	11000VA
<b>AC input</b>				
Rated input voltage	220/230/240VAC			
Operating voltage range	170~280VAC(For personal computers);90~280VAC(For home applications)			
Frequency range	50Hz/60Hz(Auto sensing)			
<b>Output</b>				
Rated output voltage(Vac)	220/230/240VAC			
Surge power	7000VA	11000VA	16000VA	22000VA
Efficiency (peak)	98%			
Transfer time	10ms(For personal computers); 20ms(For home applications)			
<b>Battery&amp;AC charger</b>				
Battery voltage	24VDC	48VDC	48VDC	48VDC
Floating charge voltage	27VDC	54VDC	54VDC	54VDC
Overcharge protection	33VDC	63VDC	66VDC	66VDC
Maximum charging current	80A		120A	150A
<b>Solar charger</b>				
Maximum PV array power	5000W	6000W	8000W(4000W*2)	11000W(5500W*2)
MPPT range @ operating voltage	120~450VDC		90~450VDC	
Maximum PV array open circuit voltage	500VDC		500VDC	
Maximum charging current	100A		150A	
<b>Physical</b>				
Dimension D*W*H(mm)	120*322*416		158.4*503.6*530.8	
Net weight(kg)	9	10	20	20
Communication interface	RS232/WiFi			
<b>Operating environment</b>				
Humidity	5%-95% Relative humidity (non-condensing)			
Operating temperature	-10°C~50°C			
Storage temperature	-15°C~60°C			

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**FRECON ELECTRIC (SHENZHEN) CO.,LTD**

Add : 2nd floor, Building 3, Zhenbao Industrial Zone,  
Shiyan Street, Baoan District, Shenzhen, China

Tel : (+86) 755-88605930

Fax : (+86) 755-88606072

[E-Mail:overseas@frecon.com.cn](mailto:overseas@frecon.com.cn)

Web:www.frecon.com.cn



Website

FaceBook

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