

**FRECON**

# SP500

HYBRID OFF-GRID SOLAR INVERTER



FRECON ELECTRIC (SHENZHEN) CO.,LTD

# SP500 HYBRID OFF-GRID SOLAR INVERTER

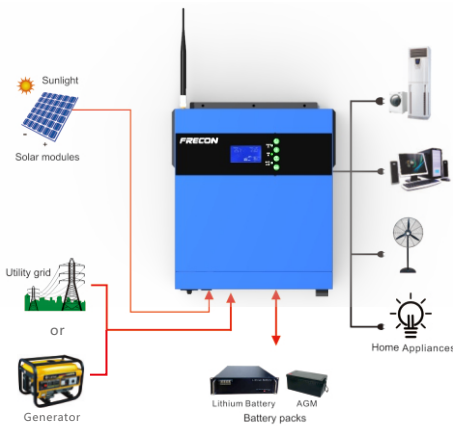
## Features

- Pure sine wave solar inverter
- Configurable output source priority
- Configurable AC/Solar charger priority
- Built-in MPPT solar charger controller
- Compatible to mains voltage or generator power
- With complete short-circuit, over-voltage, under-voltage, overload protection, etc.

## Advantages

### Solar and grid share power together

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



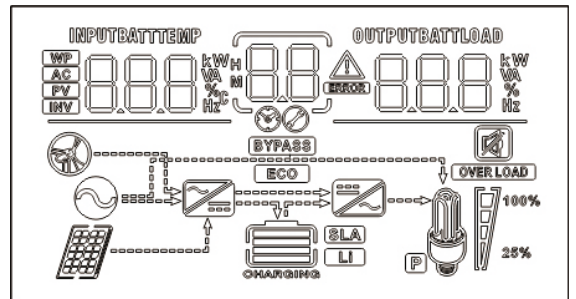
### Supports BMS

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



### 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. (SP500-3KW-24H, SP500-5KW-48H)



Model	SP500-3KW-24L	SP500-3KW-24H	SP500-5KW-48H
Rated power	3000VA	3000VA	5000VA
<b>AC input</b>			
Rated input voltage	220/230VAC		
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)	230VAC		
Surge power	6000VA	6000VA	10000VA
Efficiency(peak)	94%		
Transfer time	10ms(For personal computers) ; 20ms(For home applications)		
<b>Battery &amp; AC charger</b>			
Battery voltage	24VDC		48VDC
Floating charge voltage	27VDC		54VDC
Over charge protection	33VDC		63VDC
Maximum charging current	80A		60
<b>Solar charger</b>			
Maximum PV array power	2000W	4000W	6000W
MPPT range @ operating voltage	30~100VDC	120~450VDC	120~450VDC
Maximum PV array open circuit voltage	100VDC	495VDC	495VDC
Maximum charging current	80A		
<b>Physical</b>			
Dimension D*W*H(MM)	103*280*378	110*309*355	110*309*415
Net weight(KG)	6.8	7.3	9.6
Communication interface	USB/RS485/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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