

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.



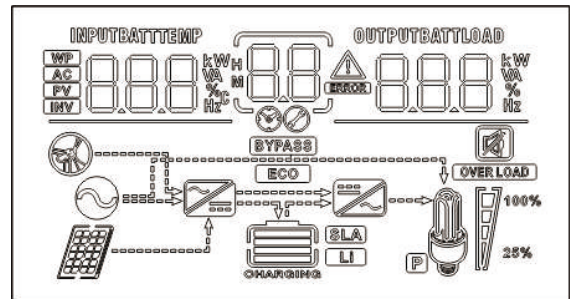
Supports BMS

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
AC input			
Rated input voltage	220/230VAC		
Operating voltage range	170~280VAC(For personal computers) ; 90~280VAC(For home applications)		
Frequency range	50Hz/60Hz(Auto sensing)		
Output			
Rated output voltage(VAC)	230VAC		
Surge power	6000VA	6000VA	10000VA
Efficiency(peak)	94%		
Transfer time	10ms(For personal computers) ; 20ms(For home applications)		
Battery & AC charger			
Battery voltage	24VDC		48VDC
Floating charge voltage	27VDC		54VDC
Over charge protection	33VDC		63VDC
Maximum charging current	80A		60A
Solar charger			
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		
Physical			
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		
Operating environment			
Humidity	5%~95% Relative humidity(non-condensing)		
Operating temperature	-10°C~50°C		
Storage temperature	-15°C~60°C		

FRECON

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

2021.08 (V1.3)