

FRECON

SP500

HYBRID OFF-GRID SOLAR INVERTER



FRECON ELECTRIC (SHENZHEN) CO.,LTD

SP500 HYBRID OFF-GRID SOLAR INVERTER

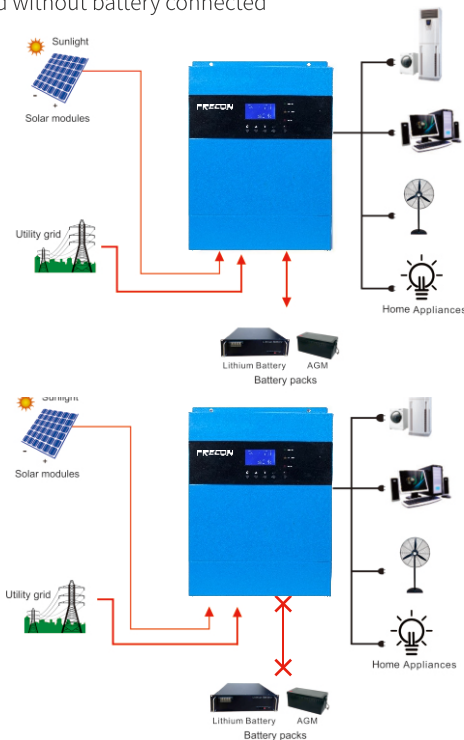
Features

- Pure sine wave solar inverter
- Strong load capacity (Air conditioner, refrigerator)
- Built-in 100A MPPT solar charger
- With complete short-circuit, over-voltage, overload, back-irrigation protection, etc.
- Compact & lightweight design
- High conversion efficiency (up to 98.7%)

Advantages

Operation without battery

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



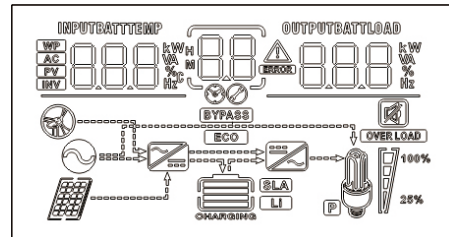
Supports BMS

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



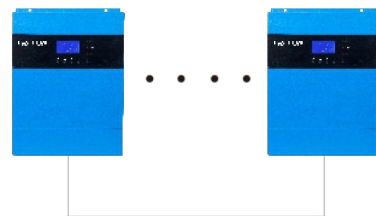
Convenient LCD operation

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



Supports parallel connections (5KW, 6KW)

Can support maximum 6 inverters in parallel connection with optional parallel card



Support mobile APP monitoring inverter

Optional Bluetooth/ WIFI/GPRS module for mobile APP monitoring.



Model	SP500-3KW-24V	SP500-4KW-24V	SP500-5KW-48V	SP500-6KW-48V
Rated power	3000VA	4000VA	5000VA	6000VA
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			
Load capacity(Air conditioner)	1.5HP	2HP	2.5HP	3HP
Efficiency(peak)PV to INV	98%			
Efficiency(peak)battery to INV	95%			
Transfer time	10ms(For personal computers) ; 20ms(For home applications)			
Battery & AC charger				
Battery voltage	24VDC		48VDC	
Floating charge voltage	24VDC		54VDC	
Over charge protection	33VDC		63VDC	
Maximum charging current	80A		80A	
Solar charger				
Maximum PV array power	2000W		5500W	6500W
MPPT range @ operating voltage	30~100VDC		120~500VDC	
Maximum PV array open circuit voltage	100VDC		500VDC	
Maximum charging current	100A		100A	
Maximum charging efficiency	98%			
Physical				
Dimension D*W*H(MM)	103*280*378		120*280*440	
Net weight(KG)	6.8		10	
Communication interface	Optional: USB/RS485/GPRS/WiFi/Bluetooth			
Operating environment				
Humidity	5%~95% Relative humidity(non-condensing)			
Operating temperature	-15°C~50°C			
Storage temperature	-25°C~60°C			

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Website

FaceBook

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