

Off Grid Solar Inverter

SP500/SP520 PLUS/SP600



FRECON



ABOUT US

Established in 2013, Frecon is a high-tech enterprise integrating R&D and manufacturing of solar inverters, batteries, and photovoltaic water pumps. With over 11 years of development, we have 12 offices across the country and have established logistics and service networks in more than 70 countries including South Africa, Egypt, Türkiye, United Arab Emirates, Afghanistan, Pakistan, Kenya, etc.





SP500

OFF GRID SOLAR INVERTER

■ Features

-  Pure sine wave inverter
-  PV input 15-125 Vdc
-  Option Wifi for monitoring data
-  Configurable AC/Solar charger priority
-  Built-in 60A MPPT
-  User friendly LCD operation
-  Wall mount design, Easy installation
-  Battery equalization extends lifecycle

■ Solar system connection



Model	SP500-1200-12L
Rated Power	1200W/1200VA
Input	
Rated Input Voltage	230VAC
Selectable Voltage Range	170~264VAC(For personal computers) ; 90~280VAC (For home applications)
Frequency	50Hz/60Hz(Auto sensing)
Output	
Waveform	Pure sine wave
AC Voltage Regulation (Batt,Mode)	230VAC±5%
Peak Power	1200VA
Switch Time	10ms (For personal computers) ; 10ms (For home applications)
Efficiency	92%
Battery	
Battery Type	Lithium battery/Lead acid battery
Battery Voltage	12VDC
Constant Charging Voltage	14.1VDC
Float Charging Voltage	13.8VDC
Overcharge Protection	16VDC
PV&AC Charger	
Max.PV Array Power	1000W
MPPT Voltage Range	20~100VDC
Max.Voltage of Open Circuit	125VDC
Max.PV Charging Current	60A
Max.AC Charging Current	60A
Max.Charging Current	60A
General	
Dimension D*W*H(mm)	87*223*332
Weight	3.6
Protection Degree	IP21
Operating Temperature Range	-10~50℃
Storage Temperature Range	-15~60℃
Noise	50dB
Cooling Method	Fan cooling
Interface	
Communication	WIFI



SP520 PLUS OFF GRID SOLAR INVERTER

Features

- Pure sine wave inverter
- Built-in 100A MPPT
- PV input 120-500Vdc
- Dry contact output
- Battery & AC/Solar priority via LCD setting
- Battery equalization extends lifecycle

Advantages

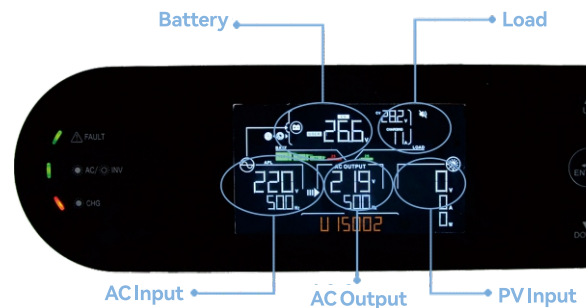
Capable to work with or without battery



Support BMS communication



User friendly LCD operation



Built-in Wifi for monitoring data



Model	SP520 PLUS-3500-24H	SP520 PLUS-5500-48H
Rated Power	3500W/3500VA	5500W/5500VA
Input		
Rated Input Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For personal computers) ; 90~280VAC (For home applications)	
Frequency	50Hz/60Hz(Auto sensing)	
Output		
Waveform	Pure sine wave	
AC Voltage Regulation (Batt,Mode)	230VAC±5%	
Peak Power	7000VA	11000VA
Load Capacity of Motors	2HP	4HP
Switch Time	10ms (For personal computers) ; 20ms (For home applications)	
Effiency	98%	
Battery		
Battery Type	Lithium battery/Lead acid battery	Lithium battery/Lead acid battery
Battery Voltage	24VDC	48VDC
Constant Charging Voltage	29.2VDC	58.4VDC
Floate Charging Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
PV&AC Charger		
Max.PV Array Power	5000W	6000W
MPPT Voltage Range	120~450VDC	
Max.Voltage of Open Circuit	500VDC	
Max.PV Charging Current	100A	
Max.AC Charging Current	80A	
Max.Charging Current	100A	
General		
Dimension D*W*H(mm)	134*311*416	
Weight	9	10
Protection Degree	IP21	
Operating Temperature Range	-10~50℃	
Storage Temperature Range	-15~60℃	
Noise	<60dB	
Cooling Method	Fan cooling	
Interface		
Communication	CAN,RS232,RS485, WIFI	



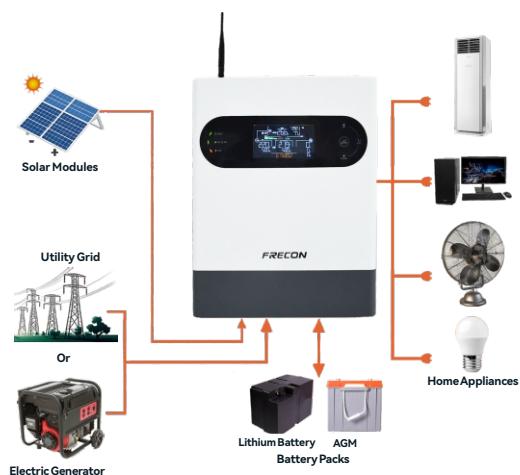
SP600 OFF GRID SOLAR INVERTER

Features

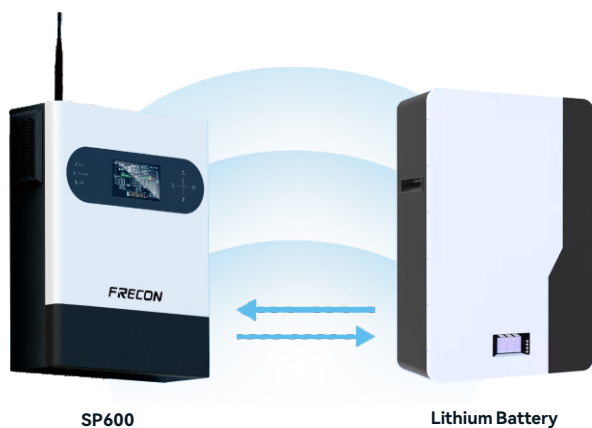
- Pure sine wave inverter
- Built-in MPPT controller
- Dry contact output
- Battery & AC/Solar priority via LCD setting
- Battery equalization extends lifecycle
- Max.6 pcs parallel operation

Advantages

Capable to work with or without battery



Support BMS communication



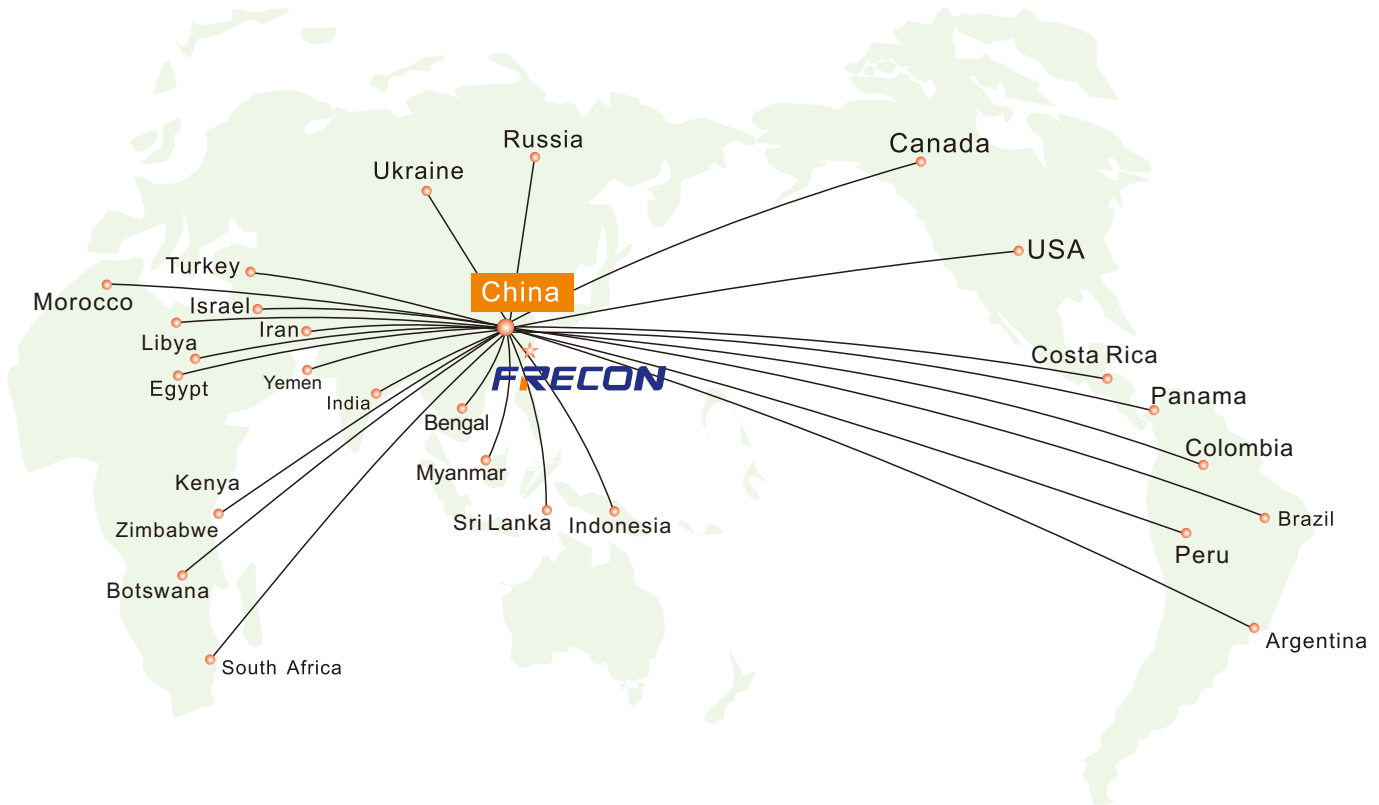
Parallel function



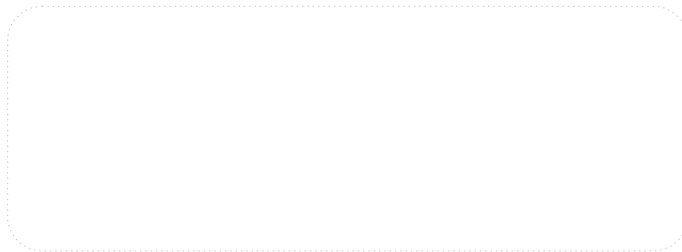
Built-in Wifi for monitoring data



Model	SP600-5500-48H	SP600-8000-48H	SP600-11000-48H
Rated Power	5500W/5500VA	8000W/8000VA	11000W/11000VA
Input			
Rated Input Voltage	230VAC		
Selectable Voltage Range	170~280VAC(For personal computers) ； 90~280VAC （For home applications）		
Frequency	50Hz/60Hz(Auto sensing)		
Output			
Waveform	Pure sine wave		
AC Voltage Regulation (Batt,Mode)	230VAC±5%		
Peak Power	11000VA	16000VA	22000VA
Load Capacity of Motors	4HP	8HP	10HP
Switch Time	10ms （For personal computers） ； 20ms （For home applications）		
Effiency	98%		
Battery			
Battery Type	Lithium battery/Lead acid battery		
Battery Voltage	48VDC		
Constant Charging Voltage	58.4V		
Float Charging Voltage	54VDC		
Overcharge Protection	63VDC	66VDC	
PV&AC Charger			
Max.PV Array Power	6000W	8000W	11000W
MPPT Voltage Range	90~450VDC		
Max.Voltage of Open Circuit	500VDC		
Max.PV Charging Current	100A	120A	150A
Max.AC Charging Current	80A	120A	
Max.Charging Current	100A	120A	150A
General			
Dimension D*W*H(mm)	134*311*416	159*504*531	159*504*531
Weight	10	20	21
Protection Degree	Ip21		
Operating Temperature Range	-10~50℃		
Storage Temperature Range	-15~60℃		
Noise	<60dB		
Cooling Method	Fan cooling		
Interface			
Communication	CAN, RS485, RS232, WIFI		
Parallel Function	6 units		



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