

LOW FREQUENCY INVERTER

AN-SPI (US Standard)



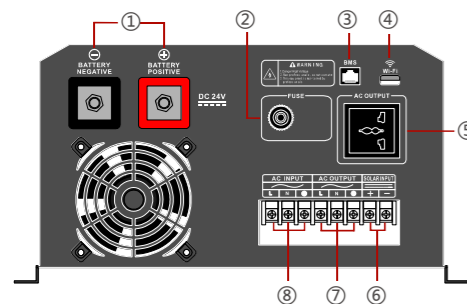
Features of Module

- Pure sine wave output
- With UPS automatic switching function, grid power charging function
- It has perfect protection functions such as overload high voltage, low voltage, short circuit, etc.
- DSP Intelligent Chip Control, Excellent Performance
- Strong inverting capability, one-time soft start, triple output peak power, with all inductive loads
- Smart LCD display and setting(Working modes, Charge Current, Charge Voltage, charging on/off switch, AC range input, battery voltage, battery low voltage shutdown etc.)
- Full personalized LCD display, inverters can display various data information
- Mains priority mode, Battery priority mode, Energy saving priority Generator mode, mains priority unattended mode, Battery priority unattended mode, can be set freely to meet different occasions
- With MPPT solar charge controller 60A-240A (Optional)

LCD Display Information

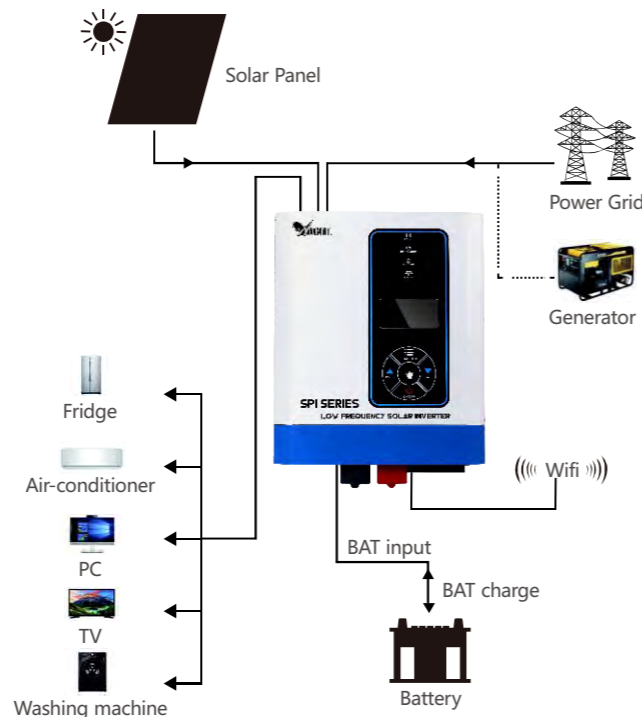


- ① LED Indicator
- ② LCD Display
- ③ Function Buttons



- ① Battery +/-
- ② AC Input Fuse
- ③ BMS(48V)
- ④ WiFi(Optional)
- ⑤ AC Output
- ⑥ Solar Input +/-
- ⑦ AC Output
- ⑧ AC Input

Solar System Connection



Model	SPI-500W	SPI-1KW	SPI-1.5KW	SPI-2KW	SPI-3KW	SPI-5KW	SPI-6KW	SPI-8KW	SPI-10KW	SPI-12KW	
Inverter Output											
Rated power	500W	1KW	1.5KW	2KW	3KW	5KW	6KW	8KW	10KW	12KW	
Surge rating(20MS)	1500W	3KW	4.5KW	6KW	9KW	15KW	18KW	24KW	30KW	36KW	
Wave form	Pure sine wave										
Power factor	1										
Output voltage RMS	110VAC/120VAC; 220VAC/230VAC/240VAC										
Output frequency	50Hz or 60Hz (±0.3Hz)										
Inverter efficiency (peak)	>85%										
Line mode efficiency	>95%										
Overload	120%<Load<130% ±10:Fault(Turnoff output after 60seconds) 130%<Load<150% ±10:Fault(Turnoff output after 10seconds) 150%<Load±10:Fault(Turnoff output after 10seconds)										
Battery											
Battery voltage	12VDC	✓	✓	✓	✓	/	/	/	/	/	
	24VDC	✓	✓	✓	✓	✓	/	/	/	/	
	48VDC	/	/	/	✓	✓	✓	✓	✓	✓	
Minimum start voltage	(9.5V-12.5V adjustable)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)										
Low battery voltage cut of	(9.5V-12.5V adjustable), 10V(default) for 12VDC mode (*2 for 24VDC, *4 for 48VDC)										
Low battery voltage alarm	(9.5V-12.5V adjustable)+0.5V,10.5V(default) for 12VDC mode (*2 for 24VDC,*4 for 48VDC)										
High battery voltage alarm	16V for 12VDC mode (*2 for 24VDC, *4 for 48VDC)										
High Battery Voltage Recover	15.5V for 12VDC mode (*2 for 24VDC,*4 for 48VDC)										
Battery type	AGM,Lead Acid,Lithium, Ternary										
AC Input Mode											
Input wave form	Pure sine wave										
AC input voltage	110V/120VAC±25%; 220/230/240VAC±25%										
Low input voltage	110/120VAC:70-90VAC(adjustable),80VAC(default) ; 220/240VAC:140-180VAC(adjustable),140VAC(default)										
Max input voltage	110/120VAC:130-145VAC(adjustable),137VAC(default) ; 220/240VAC:260-290VAC(adjustable),275VAC(default)										
Input frequency	50Hz/60Hz (auto sensing)										
Efficiency (AC mode)	>95% (load, full battery)										
Transfer time AC to DC	8ms(Max)										
Solar Charger											
Maximum PV Charge Current	PWM:30A,40A,50A,60A MPPT:30A,40A,50A,60A,80A,100A,120A,240A										
	12V Solar system	30A:360W;40A:480W;50A:600W;60A:720W									
Maximum PV Array Power	24V Solar system	30A:720W;40A:960W;50A:1200W;60A:1440W;80A:1920W;100A:2400W;120A:2880W									
	48V Solar system	50A:2400W;60A:2880W;80A:3840W;100A:4800W;120A:5760W;240A:11520W									
	96V Solar system	100A:9600W;120A:11520W;240A:23040W									
MPPT Range @ Operating Voltage	12V Solar system	15~80VDC @12V									
	24V Solar system	30-80VDC @24V(30A-50A); 30-130VDC @24V(60A-240A)									
	48V Solar system	60-150VDC @48V									
PWM Range @ Operating Voltage	15-22VDC @ 12V;30-45VDC @ 24V;60-80VDC @48V										
MPPT Maximum PV Array Open Circuit Voltage	90VDC@12V; 90VDC@ 24V(30A-50A);130VDC@ 24V(50A-240A);160VDC@ 48V										
PWM Maximum PV Array Open Circuit Voltage	25VDC@12V; 50VDC@ 24V; 100VDC@ 48V										
AC Charge Current (Max)											
12V	10A	30A	30A	40A	/	/	/	/	/	/	
24V	5A	20A	30A	40A	40A	/	/	/	/	/	
48V	/	/	/	40A	30A	40A	50A	50A	50A	50A	
Min charge current 5A, Change by every 5A											
Dimensions											
Mounting	Wall Mount										
Dimensions (W*H*D)	370*315*146mm			460*370*190mm			530*375*210mm			660*445*260mm	
Ship Dimensions (W*H*D)	415*370*225mm			520*445*250mm			620*470*286mm			755*525*235mm	
Net Weight (Solar CHG)(kg)	6	8	11	16	18	27	30	32	45	50	
Shipping Weight (Solar CHG)(kg)	7	9	12	18	20	30	33	35	50	55	
Warranty	1 year										