

LOW FREQUENCY INVERTER

AN-SPI (Split Phase)



Features of Module

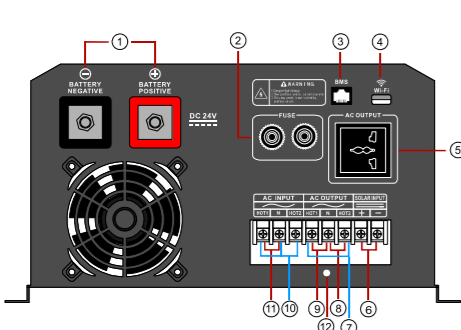
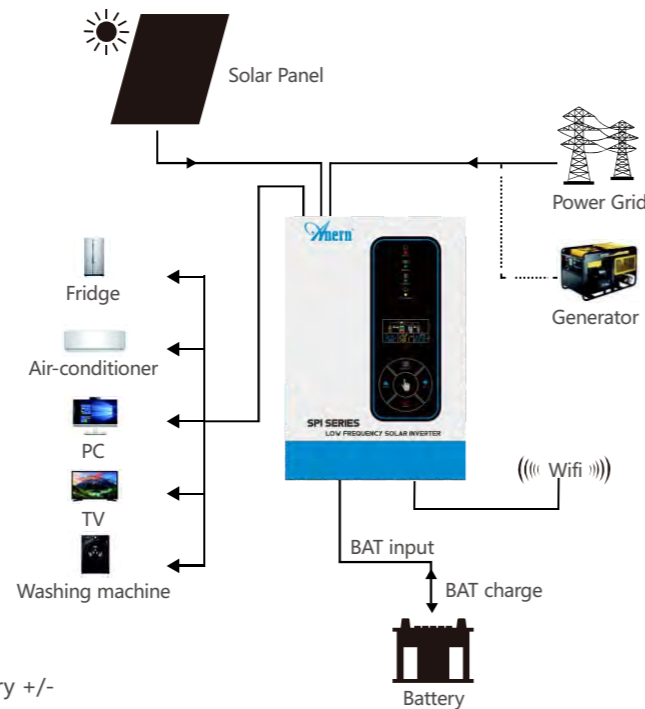
- Pure sine wave output
- With UPS automatic switching function, grid power charging function
- It has perfect protection functions such as overload high voltage, low voltage, short circuit, etc.
- DSP Intelligent Chip Control, Excellent Performance
- Strong inverting capability, one-time soft start, 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

Solar System Connection



- ① Battery +/-
- ② AC Input Fuse
- ③ BMS
- ④ WiFi
- ⑤ AC Output 110V/120V Output Voltage
- ⑥ Solar Input +/-
- ⑦ HOT1+N+HOT2 220V/240V Output Voltage
- ⑧ HOT2+N 110V/120V Output Voltage
- ⑨ HOT1+N 110V/120V Output Voltage
- ⑩ HOT1+N+HOT2 220V/240V Input Voltage
- ⑪ HOT1+N 110V/120V Input Voltage
- ⑫ GND

Model	SPI-2KW	SPI-3KW	SPI-5KW	SPI-6KW	SPI-8KW	SPI-10KW	SPI-12KW
Inverter Output							
Rated power	2000W	3000W	5000W	6000W	8000W	10000W	12000W
Surge rating(20MS)	6000W	9000W	15000W	18000W	24000W	30000W	36000W
Wave form	Pure sine wave						
Output voltage RMS	HOT1+N: 110/120VAC±10%; HOT1+HOT2: 220/240VAC±10%						
Output frequency	50Hz or 60Hz (±0.3Hz)						
Inverter efficiency (peak)	>85%						
Line mode efficiency	>95%						
Overload(HOT1+HOT2)	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)						
Overload(HOT1+N/HOT2+N)	60%<Load<65% ±10:Fault(Turnoff output after 60seconds)						
	65%<Load<75% ±10:Fault(Turnoff output after 10seconds)						
	75%<Load±10:Fault(Turnoff output after 10seconds)						
Battery							
Battery voltage	24VDC/48VDC			48VDC/96VDC			
Minimum start voltage	(9.5V-12.5V adjustable)+0.5V for 12VDC mode (*2 for 24VDC, *4 for 48VDC, *8 for 96VDC)						
Low battery voltage cut of	(9.5V-12.5V adjustable), 10V(default) for 12VDC mode (*2 for 24VDC, *4 for 48VDC, *8 for 96VDC)						
Low battery voltage alarm	(9.5V-12.5V adjustable)+0.5V,10.5V(default) for 12VDC mode (*2 for 24VDC,*4 for 48VDC, *8 for 96VDC)						
High battery voltage alarm	16V for 12VDC mode (*2 for 24VDC, *4 for 48VDC, *8 for 96VDC)						
High Battery Voltage Recover	15.5V for 12VDC mode (*2 for 24VDC,*4 for 48VDC, *8 for 96VDC)						
Battery type	AGM,Lead Acid,Lithium, Ternary						
AC Input Mode							
Input wave form	Pure sine wave						
Nominal input voltage	HOT1+N:110V/120VAC±20%; HOT1+N+HOT2: 220/240VAC±20%						
Low input voltage	110/120VAC: 70-90VAC(adjustable), 80VAC(default); 220/240VAC: 140-180VAC(adjustable),160VAC(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	50A,60A,80A,100A,120A				120A,240A		
Maximum PV Array Power	24V Solar system		60A:1440W;80A:1920W;100A:2400W;120A:2880W				
	48V Solar system		60A:2880W;80A:3840W;100A:4800W;120A:5760W;240A:11520W				
	96V Solar system		120A:11520W;240A:23040W				
MPPT Range @ Operating Voltage	30~120VDC @ 24V;60~150VDC @ 48V;120~170VDC				60-150VDC @48V;120-270VDC @96V		
Maximum PV Array Open Circuit Voltage	130VDC @ 24V; 160@ 48V				160VDC @48V;280@ 96V		
Maximum Efficiency	>98%						
Standby Power Consumption	<2w						
AC Charge Current (Max)							
24V	40A	40A	50A	/	/	/	/
48V	20A	30A	40A	50A	50A	50A	50A
96V	/	/	/	20A	30A	30A	30A
Min charge current 5A, Change by every 5A							
Dimensions							
Mounting	Wall Mount						
Dimensions (W*H*D)	460*370*190mm		530*375*210mm		660*445*260mm		
Ship Dimensions (W*H*D)	520*445*250mm		620*470*286mm		755*525*235mm		
Net Weight (Solar CHG)(kg)	16	18	27	30	32	45	50
Shipping Weight (Solar CHG)(kg)	18	20	30	33	35	50	55
Warranty	1 year						