

Pure sine wave output



1. AC output is the mains standard
2. Purifies the harmonic pollution of the mains
3. Protects the safety of electrical equipment and users
4. Improves the operation quality of electrical equipment and saves energy

INVERTER WITH MPPT SOLAR CONTROLLER

- ★ Stable, intelligent and efficient
- ★ Strong load capacity, 3 times peak power, Easily cope with inductive loads, such as motors, pumps, air conditioners, etc.
- ★ AC input & AC output adjustable (110VAC: 104-120VAC, 220VAC: 210V-230VAC) for different precision electrical appliances
- ★ AC charging is adjustable from 0-30A / 0-40A / 0-50A.
- ★ In battery priority mode, can set to turn on and off the AC charging
- ★ 3-level voltage stabilizer to protect electrical appliances from high and low voltage damage
- ★ Built-in high efficiency up to 99% 50-120A MPPT solar charger controller

Over current protection

Over voltage protection

Low voltage protection

short circuit protection

Over temperature protection



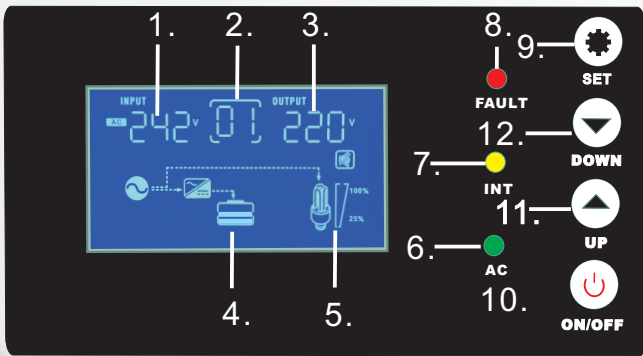
Can set battery high voltage protection and low voltage protection , float charge and equalize charge, compatible with different types of batteries



Cooling system

1. Intelligently control fan ,when the temperature $>45^{\circ}\text{C}$ automatically turn on, $<45^{\circ}\text{C}$ closed, when the temperature is higher, the fan speed faster.
2. The load power $> 50\%$ turn on , $< 50\%$ closed
3. AC charging current $>10\text{A}$ turn on , $< 10\text{A}$ closed

LCD+LED Visual display, clear at a glance

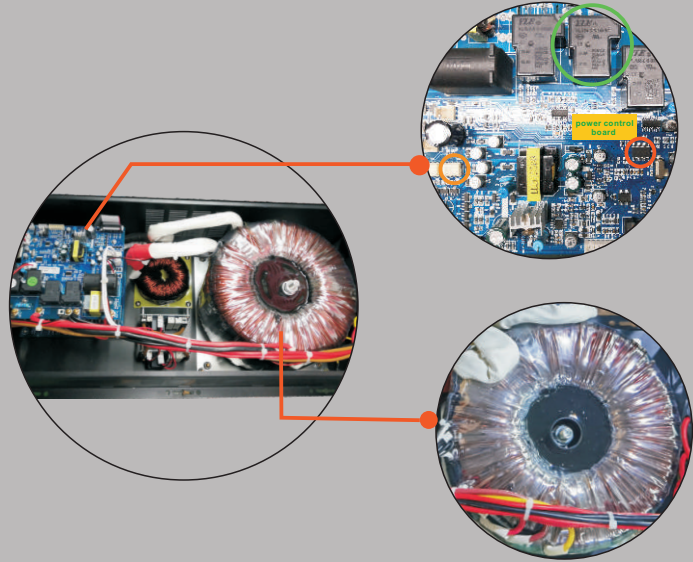


1.	INPUT	AC input voltage
2.	Hz/(01)	output frequency / Working mode
3.	OUTPUT	AC output voltage
4.	BATT	Battery working condition and capacity
5.	LOAD 25%--100%	Load power Overload condition
6.	AC	AC input voltage normal
7.	INVERTER	Battery mode
8.	FAULT	False signal light
9.	⊕	MUTE/FUNCTION
10.	⊙	ON/OFF
11.	⬆	UP
12.	⬇	DOWN



support mobile APP, can monitor and set inverter parameters

- 1 Battery input positive
- 2 Battery input negative
- 3 AC input overcurrent switch protector
- 4 AC input socket
- 5 RS485WIFI network interface (optional)
- 6 Cooling fan
- 6 Solar input positive (+)
- 7 Solar input negative(-)
- 8 AC input neutral (blue)
- 9 AC input live (brown)
- 10 AC input & output ground (yellow-green)
- 11 AC output neutral (blue)
- 12 AC output live (brown)



Big current relay, low temperature, stronger impact resistance

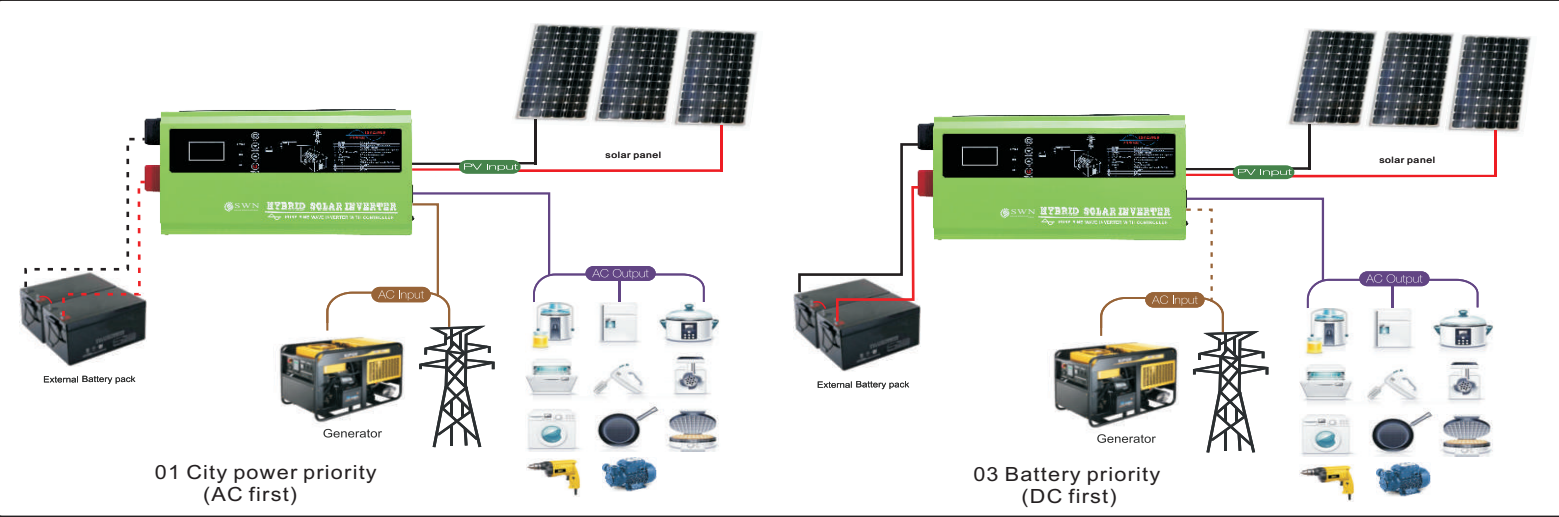
SMD components small size, light weight, high in reliability and strong in vibration resistance, low solder joint defect rate ,more reliable

Large memory high-speed DSP chip Flexible, accurate, strong anti-interference, real-time and fast realization of various digital signal processing

Toroidal transformer

low temperature, low noise, high efficiency
no load current $\leq 0.6A$

Packed in Strong Carton :



- 01 City power priority: When the main power is available, the city power supply power to the load and charging to battery, when the city power is off inverter automatically converts and use the battery supply power to the load .
- 02 Energy saving mode : When the inverter is in battery priority mode and the output load is less than 10% of the power, the AC power output will be turn off,when the load is greater than 11% of inverter rated power, the inverter restarts output. This function is to reduce the battery loss and extend the battery backup time.
- 03 Battery priority: The battery supply power to the load. When the battery voltage is low Inverter automatic conversion use city power supply power to the load. (AC charging to battery or not set by PC).When the battery voltage is restored , the battery will supply power to the load again.
- 04 City power priority unattended: Inverter automatically turn on when connected to city power or battery voltage is normal. Inverter use city power supply power to the load first.
- 05 Battery priority unattended : When the battery voltage is normal ,the inverter automatically turn on and battery supply power to the load. When battery is low voltage shutdown , the inverter enters standby and waits for solar charging to battery .When the battery voltage is restored ,the inverter automatically turn on .



Specification:

Model		1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W	
Inverter Input	Rated capacity	1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W	
	peak power	3000W	4500W	6000W	9000W	12000W	15000W	18000W	24000W	30000W	36000W	
	Commercial Power range	110VAC:83V-137VAC 120VAC:90V-150VAC 220VAC:165V-275VAC 230VAC:173V-287VAC						220VAC:176V-264VAC 230VAC:184V-276VAC				
	AC frequency range	45-65HZ										
	Efficiency	>85%										
MPPT Solar controller	MPPT Solar controller	30A / 50A			50A/60A/80A				80A /100A			
	Solar input power	360W/720W/1200Wv			1200W/1440W/2400W2880W/3840W				3840W/4800W/9600W			
	Solar input voltage(max)	12VDC/24VDC:130V				48VDC:160V			96VDC: 280V			
Battery	Type	lead-acid battery GEL battery lithium battery										
	DC Voltage	12VDC /24VDC/48VDC			24VDC/48VDC		48VDC/96VDC					
	Input voltage range	12VDC:10.5-15VDC			24VDC:21-30VDC		48VDC:42-60VDC		96VDC:84-120VDC			
	Floating charge set	12V:12.9 ~ 13.6 V		24V:25.8V ~27.2V		48V:51.6V ~54.4V		96V:103.2V ~108.8V				
	Low voltage restored	12VDC:12.6-14.4VDC		24VDC:25.2-28.8VDC		48VDC:50.4-57.6VDC		96VDC:100.8-115.2VDC				
	Low voltage shutdown set	12VDC:10-10.9V		24VDC:20-21.8V		48VDC:40-43.6V		96VDC:80V-87.2V				
	over voltage protection	12VDC:16.7VDC			24VDC:33.4V		48VDC:66.8V					
	over voltage alarm	12VDC:15VDC			24VDC:30V		48VDC:60V					
	AC charging	5A-35A(40A, 50A, 60A,70A Optional)										
Inverter Output	Capable of starting electric motor	0.5HP	1HP	1.5HP	2HP			3HP				
	AVR voltage range (VAC)	110/120/220/230/240±10% (Auto-sensing)							Without			
	Power factor	100%										
	Transfer time	Typical: 5ms(Including detection time)										
	Temperature protection	≥85℃ alarm ≥90℃ machine shut off										
	overload	IPS automatically shut down if overload exceeds 110%-120% of normal value for 30 seconds, IPS automatically resume work if overload comes to rated load.										
	Wave form	Pure sine wave										
	Frequency	Commercial power supply: shared frequency with the commercial inversion state:60/50±0.5										
	Output frequency range (electric supply mode)	Tracking automatically										
	Protection	Overload, short circuit, battery high and low voltage, AC input high and low voltage protection										
temperature	Operating Temperature	0℃~70℃										
	Thermal method	Cooling fan in intelligent control≤42℃ fan rotates slowly to ≥45℃ fan rotates fast										
Appearance	External Size(mm) (L*W*H)	510*325*215mm				645*325*215mm			765*320*250mm			
	Gross Size(mm) (L*W*H)	560*380*280mm				730*400*290mm			840*405*320mm			
	Net weight(kg)	14	15	18	20	31	34	35	52	54	56	
	Gross weight(kg)	16	17	20	22	35	37	38	56	58	60	

