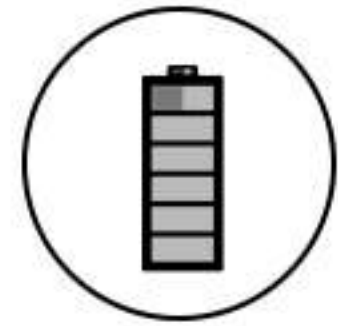


LOW FREQUENCY OFF GRID HORIZONTAL SOLAR INVERTER WITH CONTROLLER

LF- HC Series



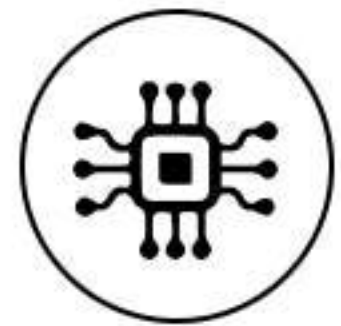
Temperature overcharge



Over-protection



Overcharge protection



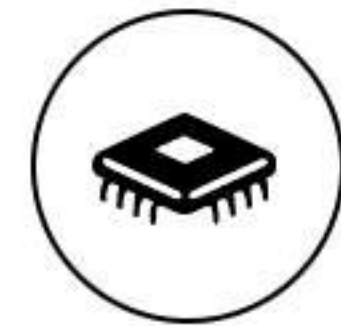
Overcurrent protection



Cell overcurrent



Overload protection



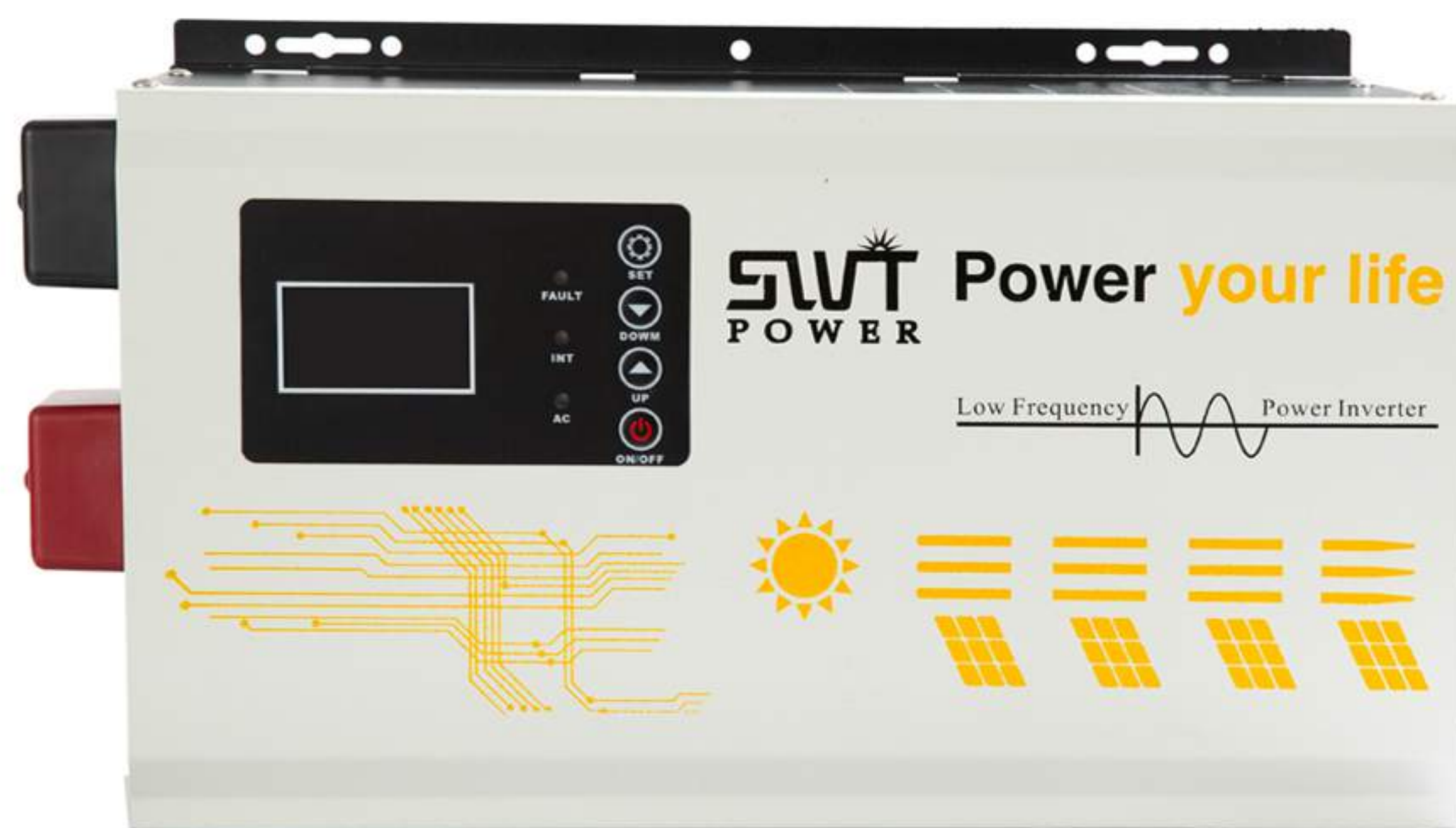
Overvoltage protection



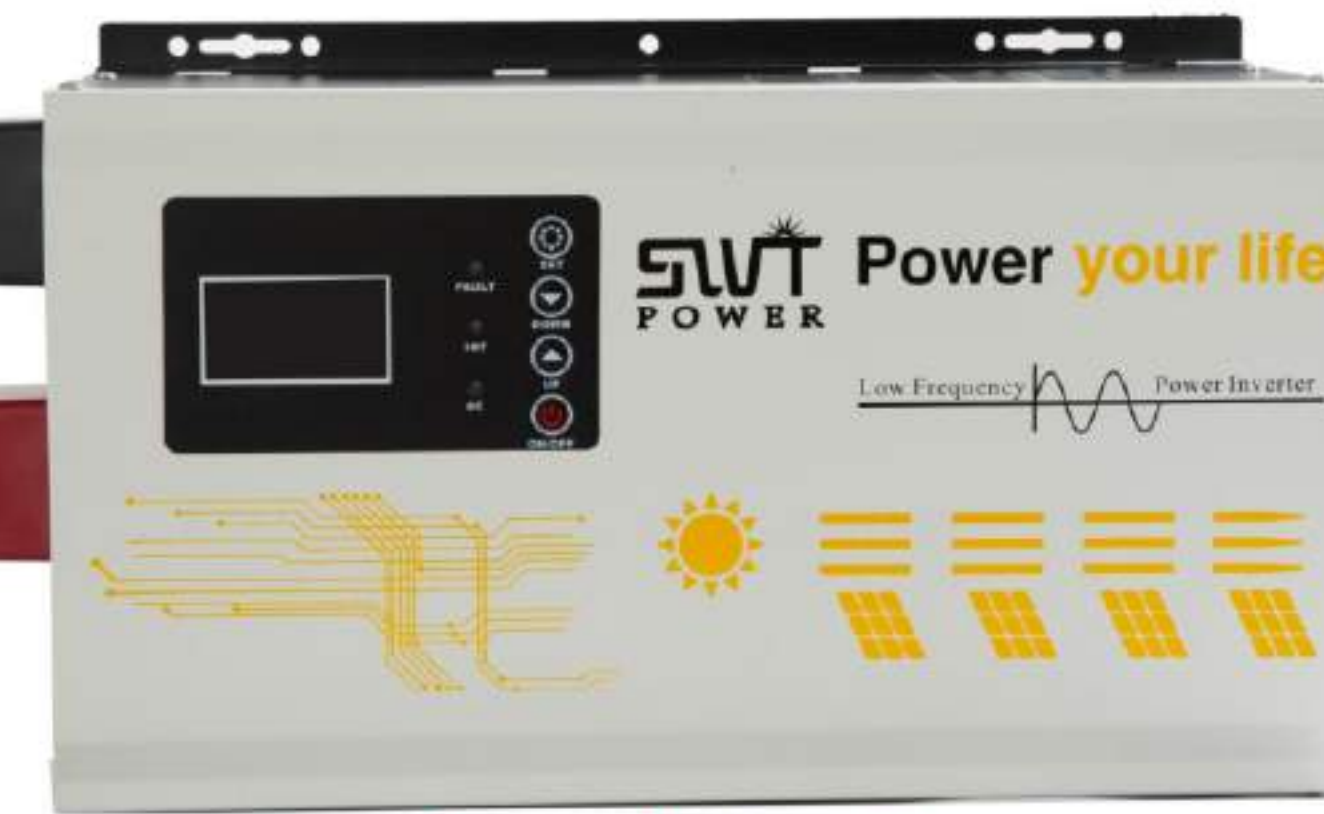
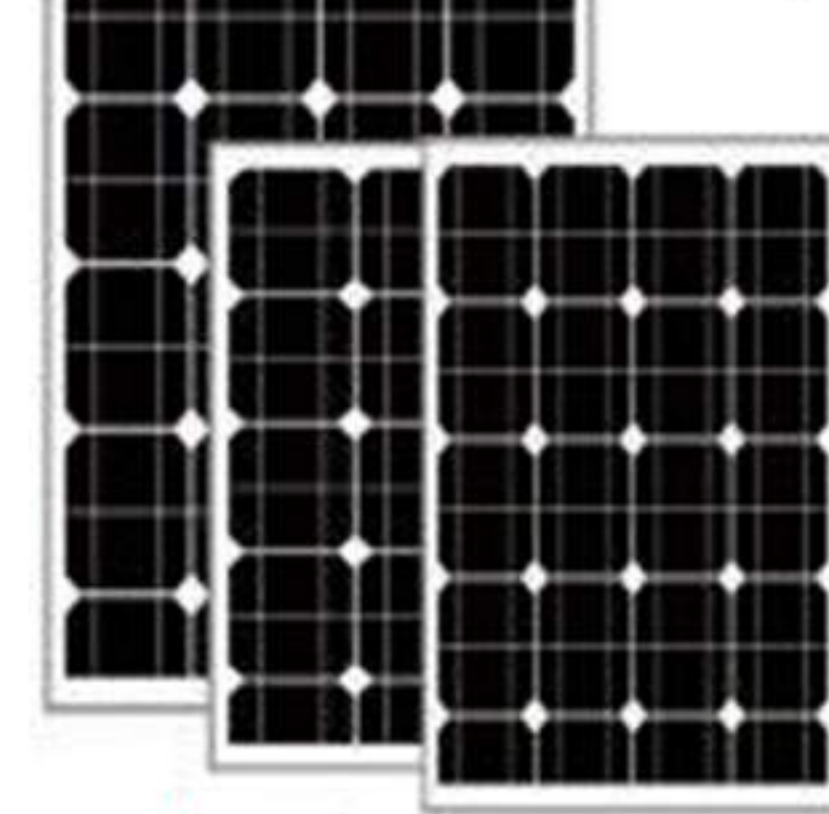
Cell overvoltage



Short circuit protection



PV panel



Inverter charger

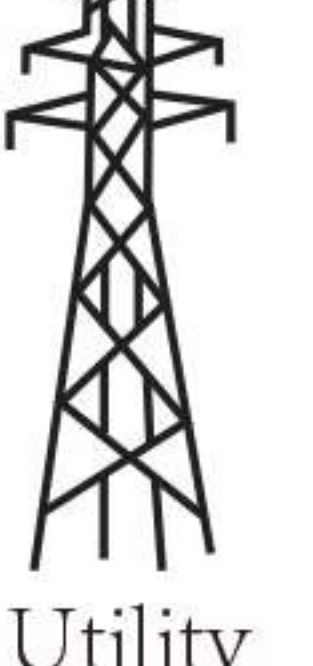
Home Appliances



External Battery pack

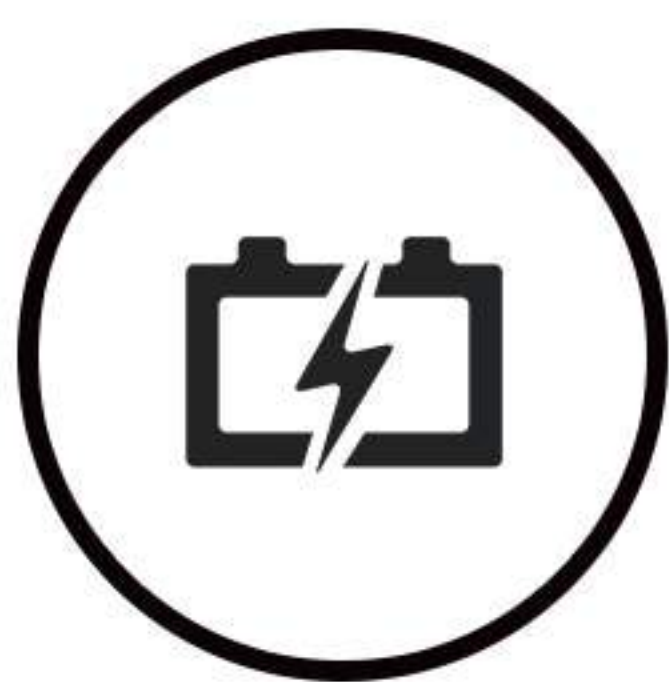


Generator



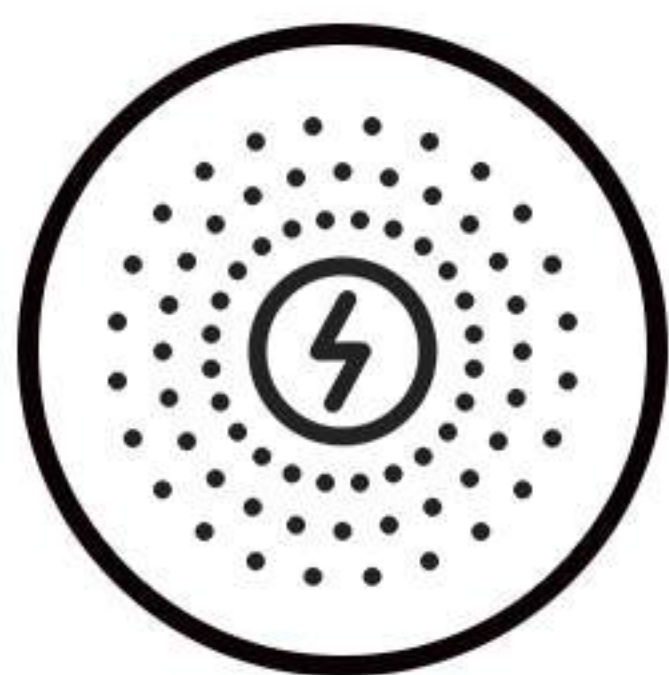
Utility

INFORMATION



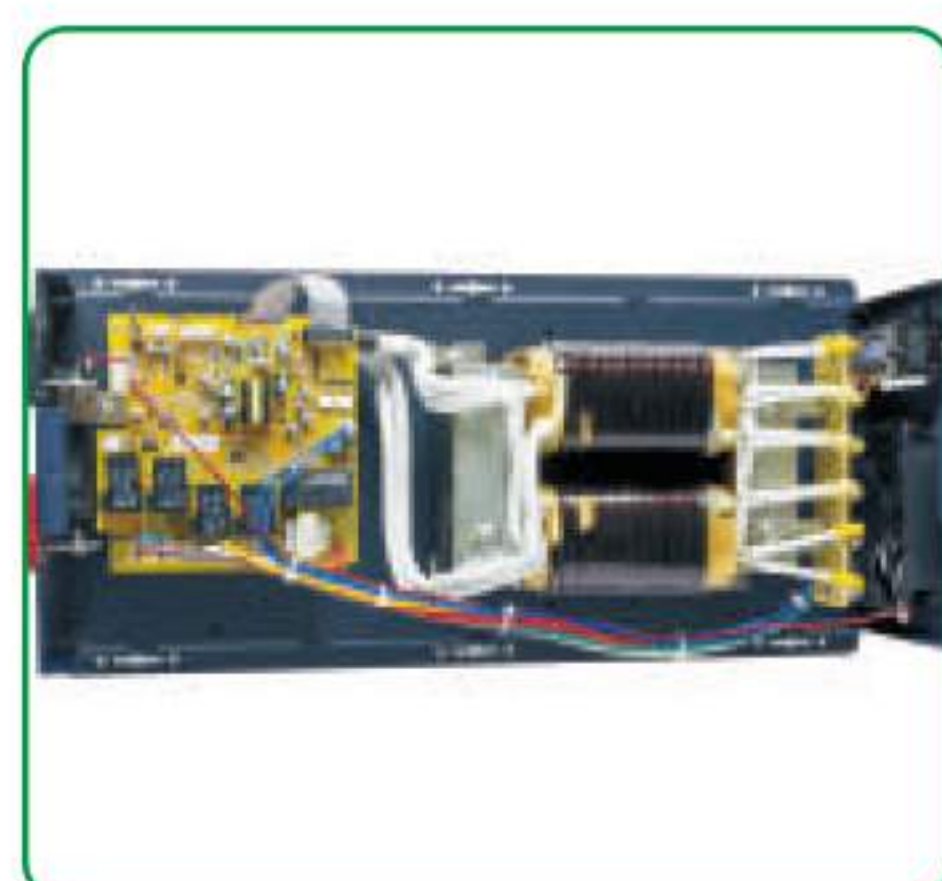
.Features:

- *Pure sine wave output.Rated power 1KW to 12KW
- *Built in MPPT or PWM solar controller
- *Compatible with Gel.AGM.Flooded.Sealed lead acid andLithium battery
- *Multiple Protections:
High/low voltage alarm and protection-Deep discharge protection
Battery reverse polarity connection protection
Overload, short-circuit Protection
Over-temperature protection
- *Multiple optional operations modes: Utility(AC) priority or Solar(PV)|Battery priority or energy-saving mode
- *AVR (Automatic Voltage Regulation)110/120/220/230+10%
- *Have UPS function and AC charge
- *3-stage charging optimizes battery performance



Introduction:

LF-HC Series is pure sine wave inverter with AC charge, UPS and AVR functions and built-in PWM or MPPT solar charge controller. Smart LCD display with easily user-configurable buttons shows comprehensive data of battery charge current and voltage, AC input and output voltage, Load etc.With multiple optional operations modes and multiple protections,LF-HC series is perfect for solar power system, lights, computer, fan and other small-power household appliances.



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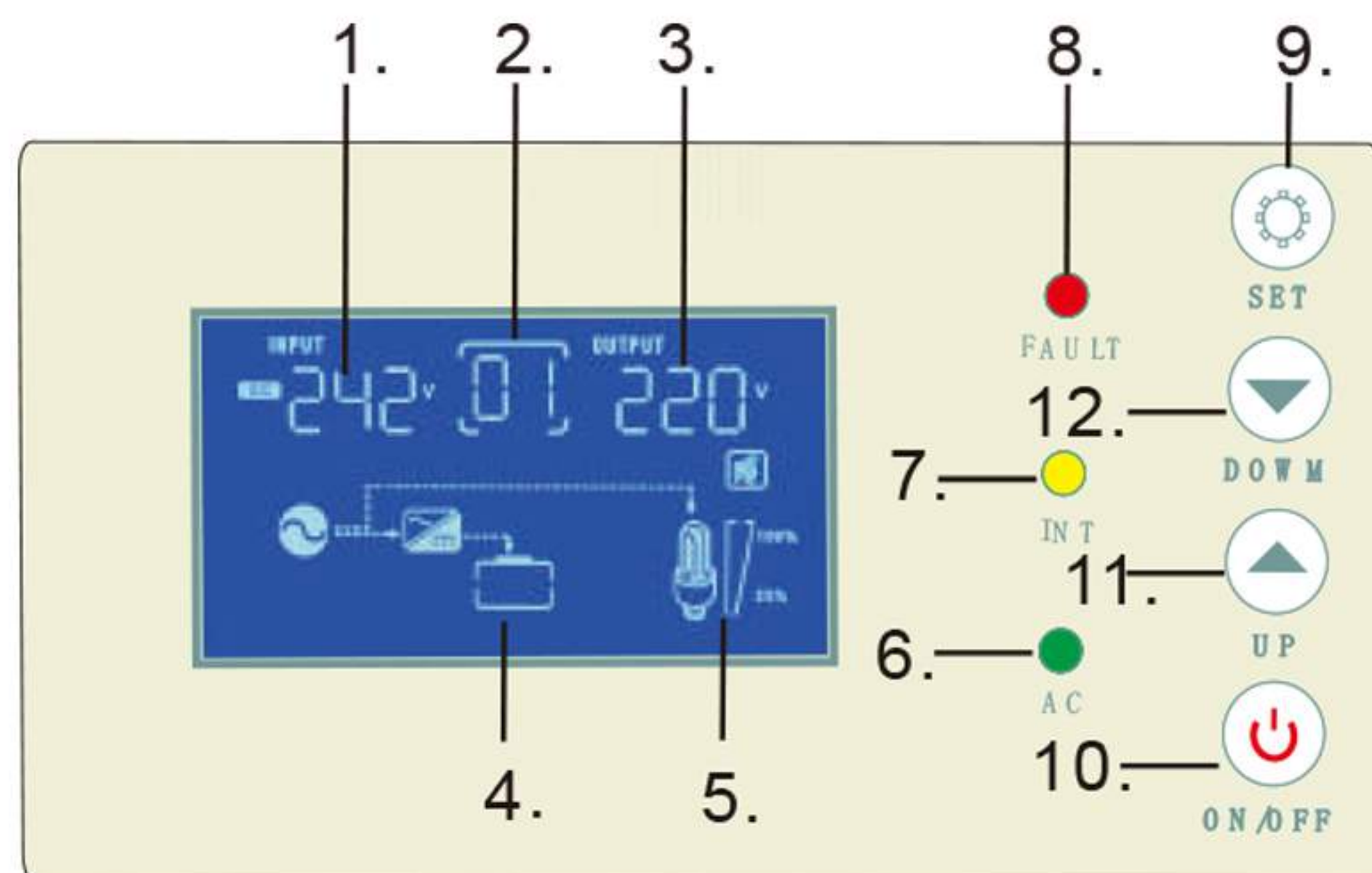


company: Xiamen Sweet Power Tech. Co., Ltd

SPECIFICATION

MODEL		LF-HC1K	LF-HC2K	LF-HC3K	LF-HC4K	LF-HC5K	LF-HC6K	LF-HC8K	LF-HC10K	LF-HC12K	
Nominal Battery System Voltage		12V/24V	24V/48V		48V			48V/96V			
INVERTER OUTPUT & INPUT	Rated Power	1KW	2KW	3KW	4KW	5KW	6KW	8KW	10KW	12KW	
	Peak Power	3KW	6KW	9KW	12KW	15KW	18KW	24KW	30KW	36KW	
	Output Waveform	Pure Sine Wave									
	Output Voltage	110VAC/120VAC/220VAC/230V±2%									
	Mains Input Frequency Range	45Hz-65Hz									
	Transfer Time	Typical:5ms									
	Thermal Method	Intelligent fan cooling, ≤42℃ fan rotates slowly, ≥45℃ fan rotates fast									
Solar INPUT&Controller	MPPT Solar Controller & DC Range	0.5HP	1HP	1.5HP	2HP			3HP			
		12V/24V	24V	24V/48V	48V			48V/96V			
	Solar Input	30A			50A or 100A						
AC INPUT&OUTPUT	Commercial Power Range(VAC)	110VAC:73~137		120VAC:80~150	220VAC:145~275	230VAC:152~288	240VAC:158~300				
	AVR Voltage Range(VAC)	AVR output 110/120/220/230/240±10%									
	Output Frequency Range	Tracking Automatically									
	AC Charging Current:	10A-40A(set by yourself)									
BATTERY	Nominal Input Voltage	12VDC/24VDC/48VDC				48VDC/96VDC					
	DC Input Voltage Range	12VDC:10.5VDC-15VDC		24VDC:21.0VDC-30VDC	48VDC:42.0VDC-60VDC						
	Battery Under Voltage Protection	12VDC:10.5VDC		24VDC:21V	48VDC:42V						
	Battery Low Voltage Protection	12VDC:10VDC		24VDC:20V	48VDC:40V						
	Battery Over Voltage Alarm	12VDC:15VDC		24VDC:30V	48VDC:60V						
	Battery Over Voltage Protection	12VDC:16.7VDC		24VDC:33.4V	48VDC:66.8V						
PROTECTION	Operating Temperature	0-70℃									
	Temperature Protection	≥85℃ alarm, ≥90℃ off the machine									
	Overload	IPS automatically shut down if overload exceeds 120% of normal value for 10 seconds,IPS automatically resume work if overload comes to rated load									
	High-low voltage protection, Short Circuit Protection, Against Overload, Battery reverse connection, over voltage										
MECHANICAL SPECIFICATIONS	External Size (W*H*D)	460*230*200mm			650*270*200mm			763*315*248mm			
	Package Size (W*H*D)	530*330*255mm			740*350*275mm			840*405*320mm			
	Net Weight (kg)	17	20	27	35	37	41	57	60	70	
	Gross Weight (kg)	19	22	29	37	39	43	60	63	73	
OTHER	Frequency	Commercial power supply :shared frequency with the Commercial inversion state:60/50±0.5									
	Other Functions	UPS and AC Charger									
	Display	LCD									

LCD DISPLAY INFORMATION

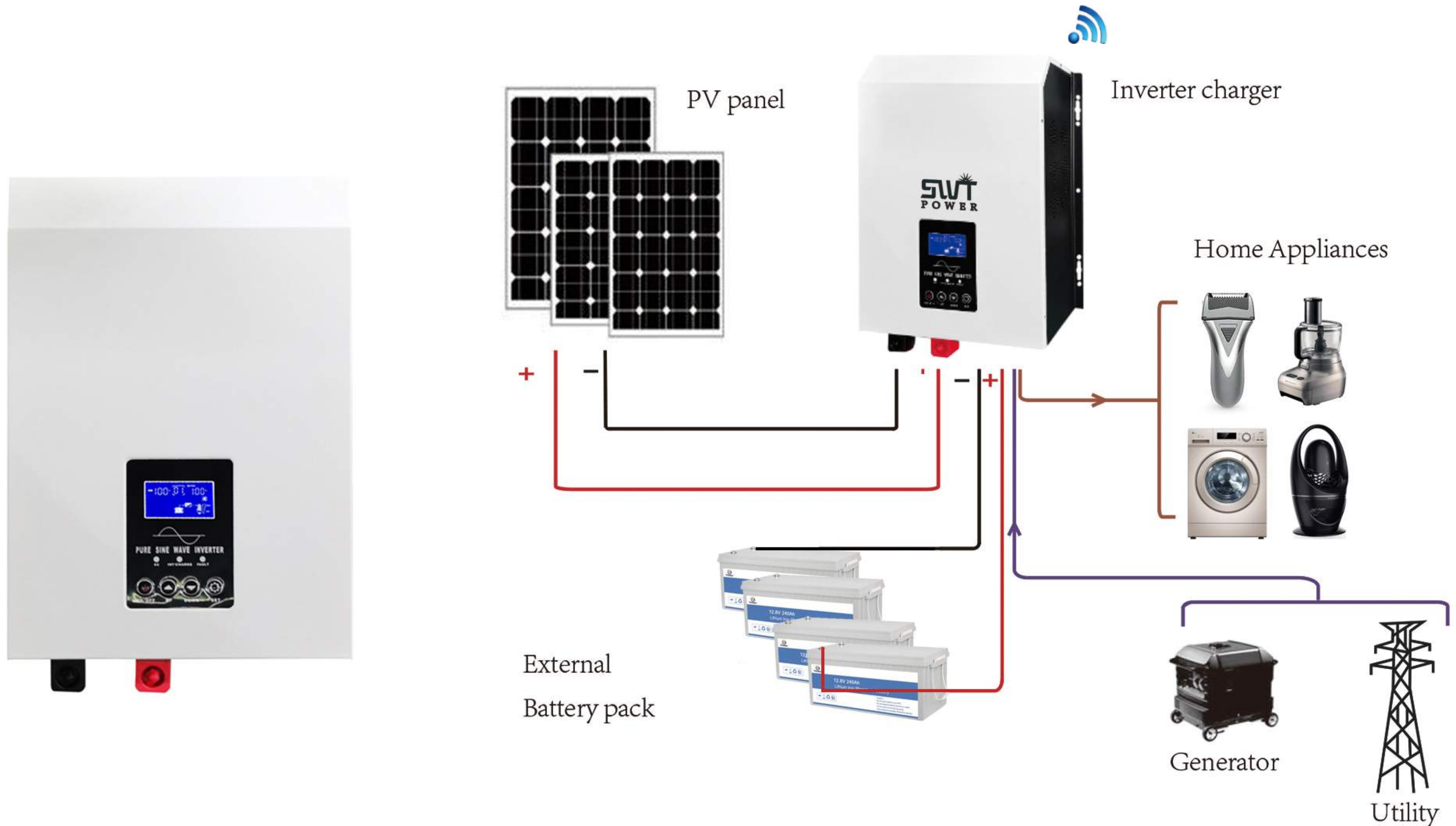


1.	INPUT	AC input voltage
2.	Hz/(01)	output frequency / Working mode
3.	OUTPUT	AC output voltage
4.	BATT	Battery working condition and capacity
5.	LOAD 25%--100%	Load power Overload condition
6.	AC	AC input voltage normal
7.	INVERTER	Battery mode
8.	FAULT	False signal light
9.	⊗	MUTE/FUNCTION
10.	⊗	ON/OFF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

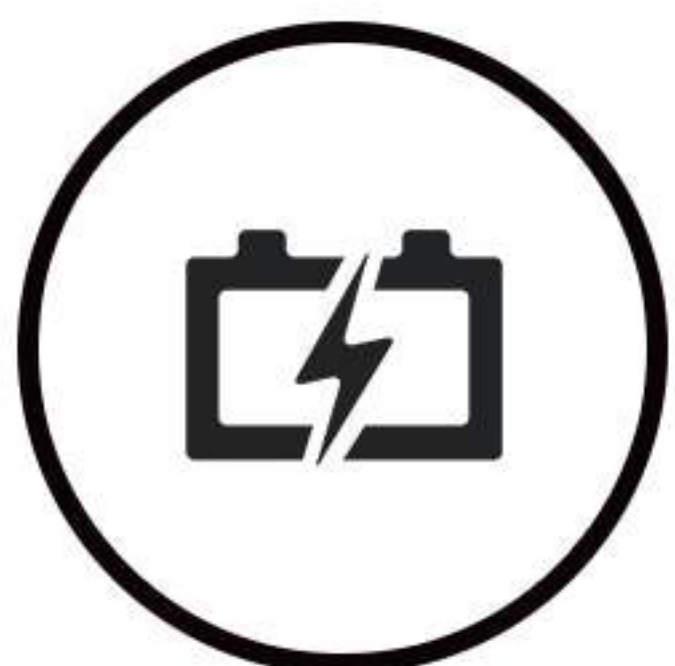
LOW FREQUENCY OFF GRID VERTICAL SOLAR INVERTER WITH CONTROLLER

LF-VC Series

- U
Overvoltage protection
- 
cell overvoltage
- 
Short circuit protection

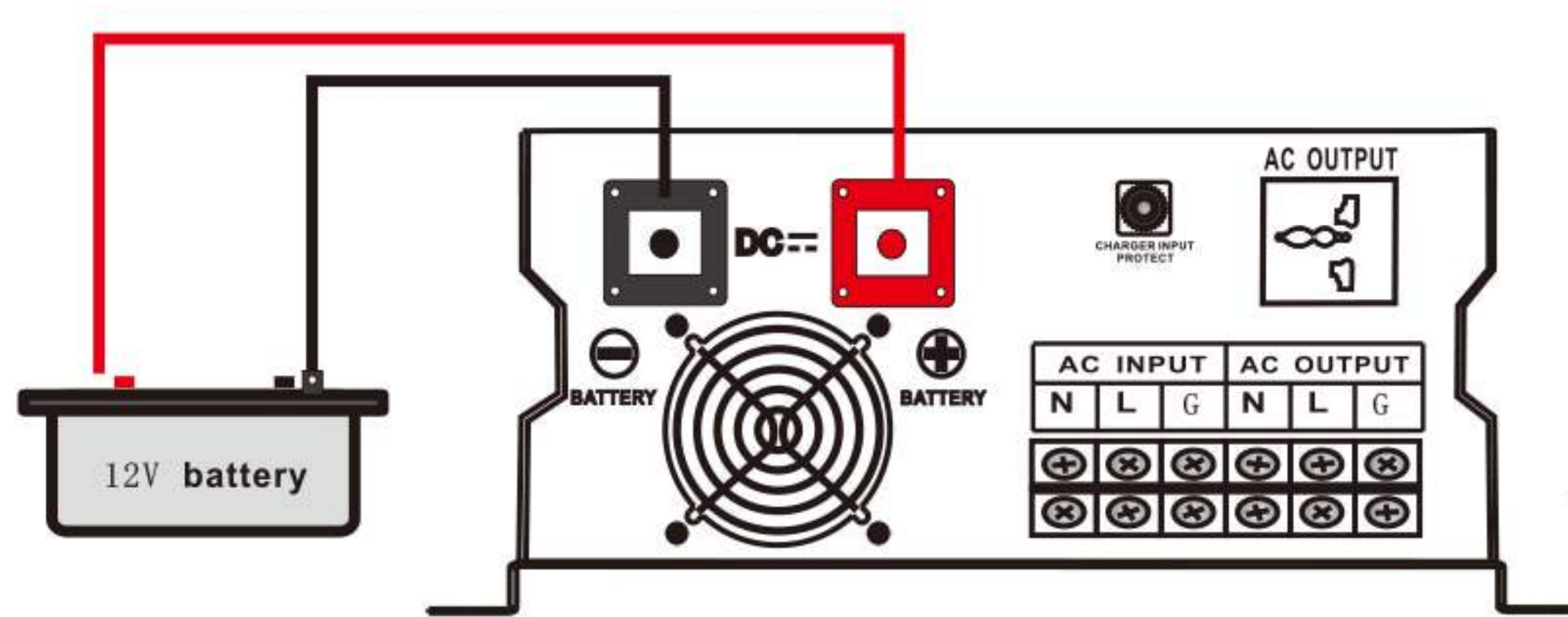
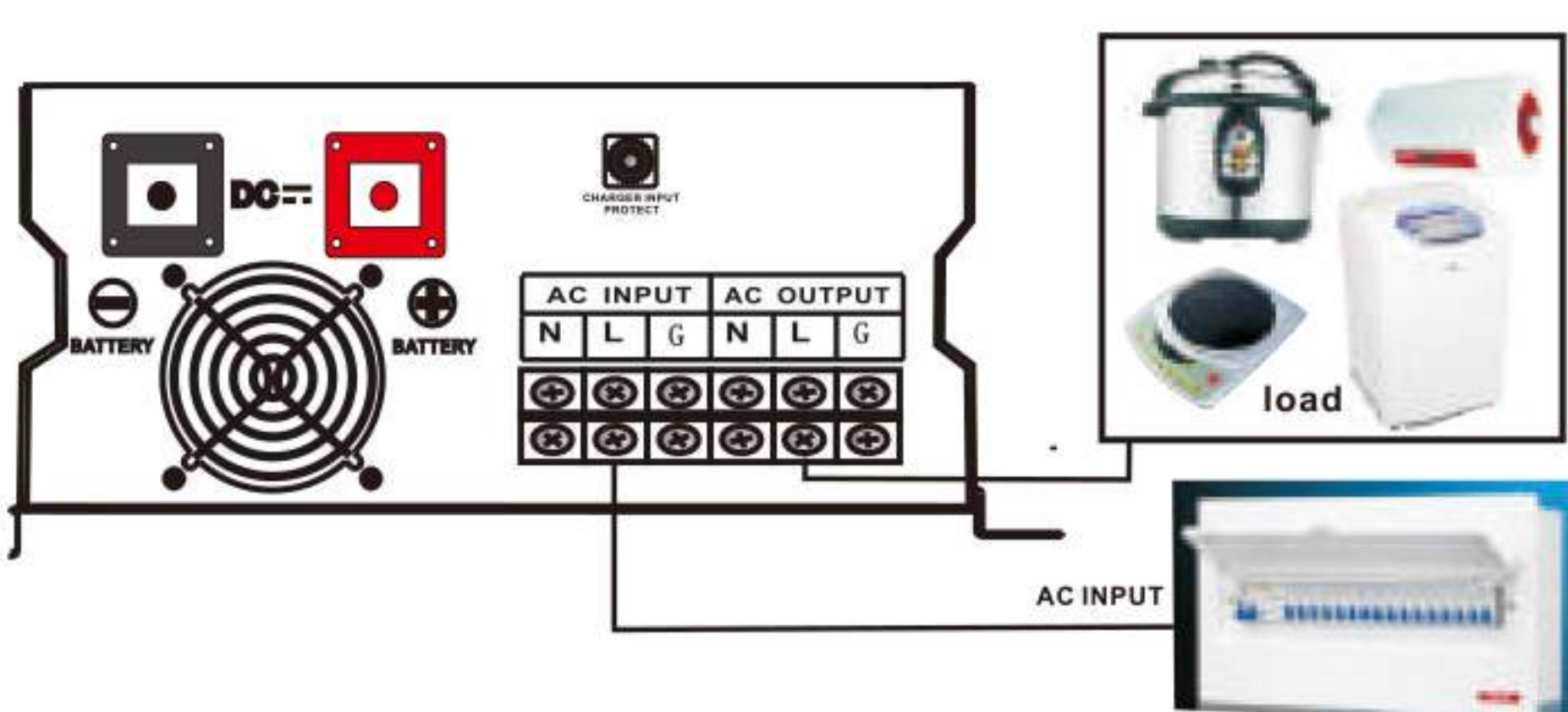


SYSTEM CONNECTION

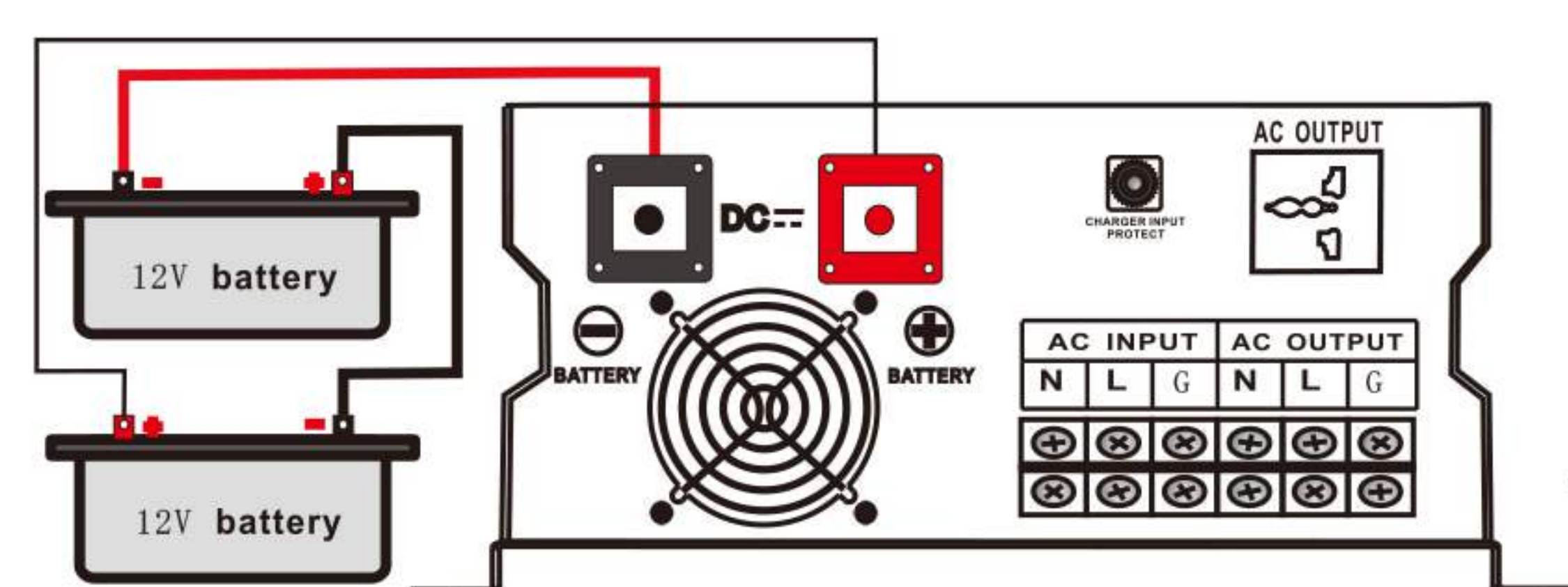


.Features:

- *Pure sine wave output. Rated power 1KW to 12Kw
 - *Built in MPPT or PWM solar controller
 - *Compatible with Gel.AGM.Flooded. Sealed lead acid and Lithium battery
- Multiple Protections:
- High/low voltage alarm and protection-Deep discharge protectionBattery reverse polarity connection protection
 - Overload, short-circuit Protection
 - Over-temperature protection
- *Multiple optional operations modes: Utility(AC) priority or Solar(PV)/Battery priority or energy-saving mode
 - *AVR (Automatic Voltage Regulation)110/120/220/230+10%Have UPS function and AC charge
 - *3-stage charging optimizes battery performance



12V series battery wiring diagram



24V series battery wiring diagram

SPECIFICATION

MODEL		LF-VC1K	LF-VC2K	LF-VC3K	LF-VC4K	LF-VC5K	LF-VC6K	LF-VC8K	LF-VC10K	LF-VC12K	
Nominal Battery System Voltage		12V/24V	24V/48V		48V			48V/96V			
INVERTER OUTPUT & INPUT	Rated Power	1KW	2KW	3KW	4KW	5KW	6KW	8KW	10KW	12KW	
	Peak Power	3KW	6KW	9KW	12KW	15KW	18KW	24KW	30KW	36KW	
	Output Waveform	Pure Sine Wave									
	Output Voltage	110VAC/120VAC/220VAC/230V±2%									
	Mains Input Frequency Range	45Hz-65Hz									
	Transfer Time	Typical:5ms									
	Thermal Method	Intelligent fan cooling, ≤42℃ fan rotates slowly, ≥45℃ fan rotates fast									
Capable Of Starting Electric Motor	0.5HP	1HP	1.5HP	2HP			3HP				
Solar INPUT&Controller	MPPT Solar Controller& DC Range	30A	30A/50A	50A	50A			100A			
		12V/24V	24V	24V/48V	48V			48V/96V			
	Solar Input	30A			50A or 100A						
		360W/720W/1440W			1200W/2400W/4880W/9600W						
AC INPUT&OUTPUT	Commercial Power Range(VAC)	110VAC:73~137 120VAC:80~150 220VAC:145~275 230VAC:152~288 240VAC:158~300									
	AVR Voltage Range(VAC)	AVR output 110/120/220/230/240±10%									
	Output Frequency Range	Tracking Automatically									
	AC Charging Current:	10A-40A(set by yourself)									
BATTERY	Nominal Input Voltage	12VDC/24VDC/48VDC				48VDC/96VDC					
	DC Input Voltage Range	12VDC:10.5VDC-15VDC			24VDC:21.0VDC-30VDC			48VDC:42.0VDC-60VDC			
	Battery Under Voltage Protection	12VDC:10.5VDC 24VDC:21V 48VDC:42V									
	Battery Low Voltage Protection	12VDC:10VDC 24VDC:20V 48VDC:40V									
	Battery Over Voltage Alarm	12VDC:15VDC 24VDC:30V 48VDC:60V									
	Battery Over Voltage Protection	12VDC:16.7VDC 24VDC:33.4V 48VDC:66.8V									
PROTECTION	Operating Temperature	0-70℃									
	Temperature Protection	≥85℃ alarm, ≥90℃ off the machine									
	Overload	IPS automatically shut down if overload exceeds 120% of normal value for 10 seconds,IPS automatically resume work if overload comes to rated load									
		High-low voltage protection,Short Circuit Protection,Against Overload,,Battery reverse connection, over voltage									
		Under-voltage and over-temperature protection									
MECHANICAL SPECIFICATIONS	External Size (W*H*D)	460*230*200mm			650*270*200mm			763*315*248mm			
	Package Size (W*H*D)	530*330*255mm			740*350*275mm			840*405*320mm			
	Net Weight (kg)	17	22	29	37	39	43	60	63	70	
	Gross Weight (kg)	19	24	31	40	42	45	64	66	73	
OTHER	Frequency	Commercial power supply :shared frequency with the Commercial inversion state:60/50±0.5									
	Other Functions	UPS and AC Charger									
	Display	LCD									

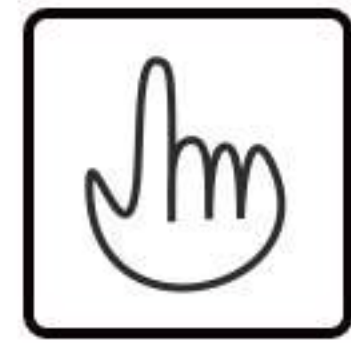
APPROXIMATE BACK-UP TIME TABLE

Power Rate(w)	backup time(H) @1*100Ah	backup time(H) @2*100Ah	backup time(H) @4*100Ah	backup time(H) @4*200Ah	backup time(H) @8*200Ah
1000	0.750	1.600	3.200	6.400	12.800
2000	0.375	0.800	1.600	3.200	6.400
3000		0.530	1.060	2.130	4.260
4000		0.400	0.800	1.600	3.200
5000		0.320	0.640	1.280	2.560
6000		0.270	0.535	1.070	2.140

SOLAR MPPT CONTROLLER



LCD display



Simple button operation



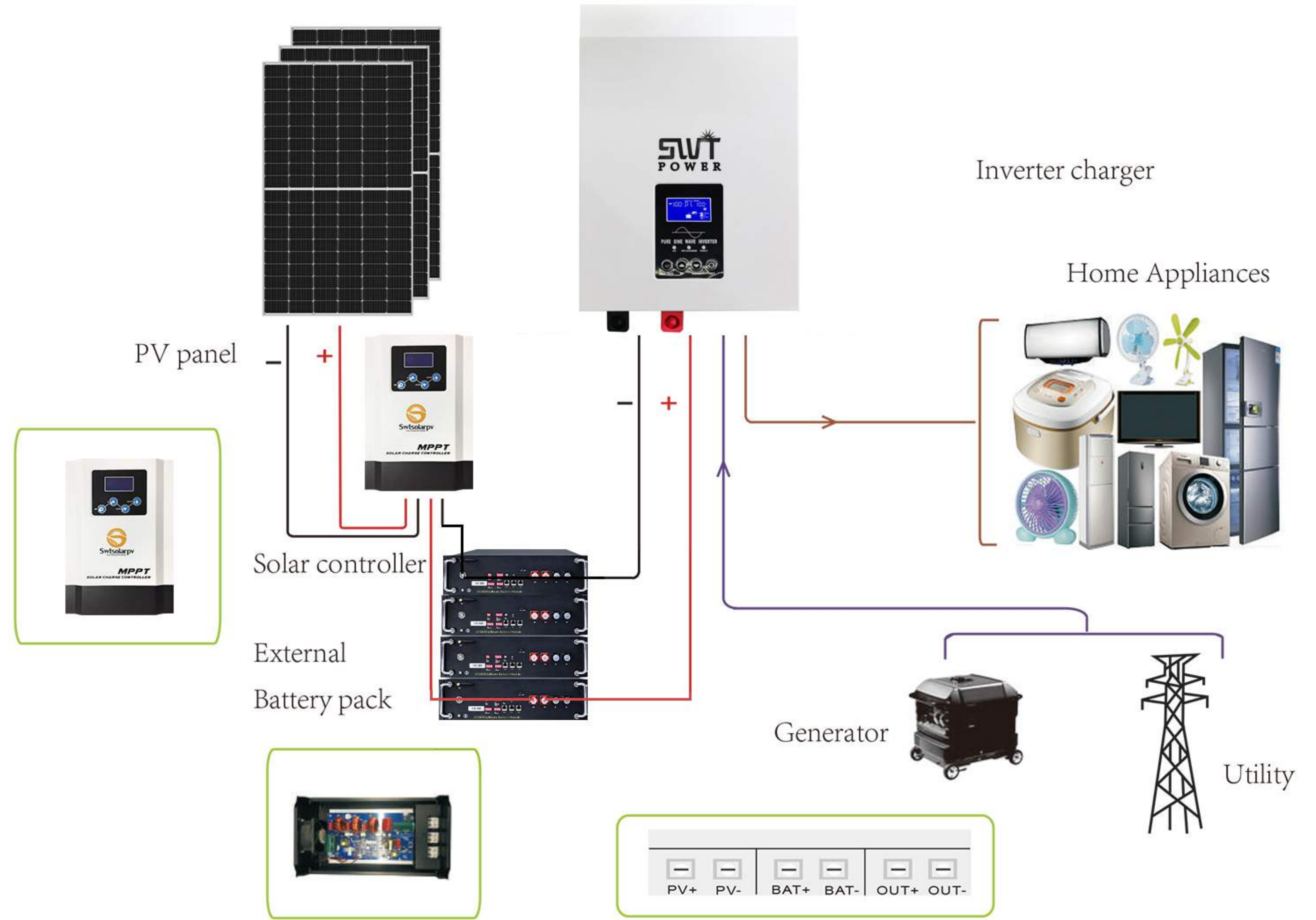
Protections



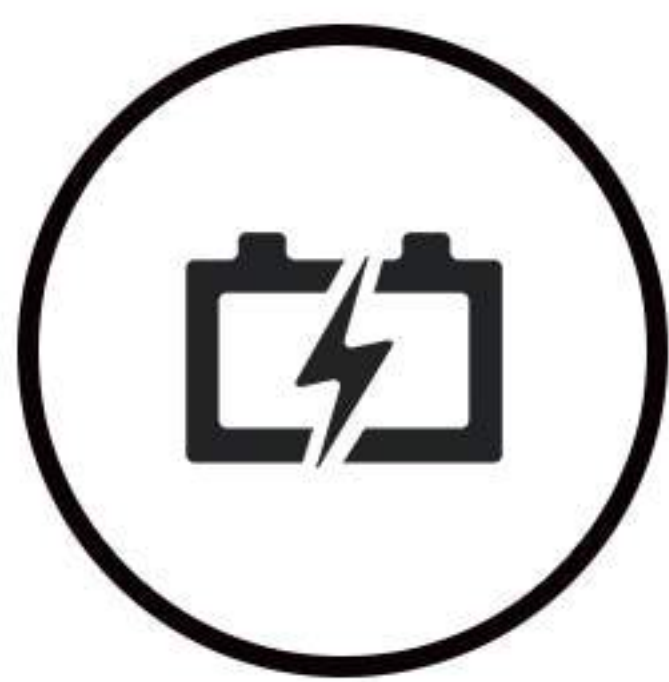
Small Size Light Weight More Accurate More Intelligent



CPU control

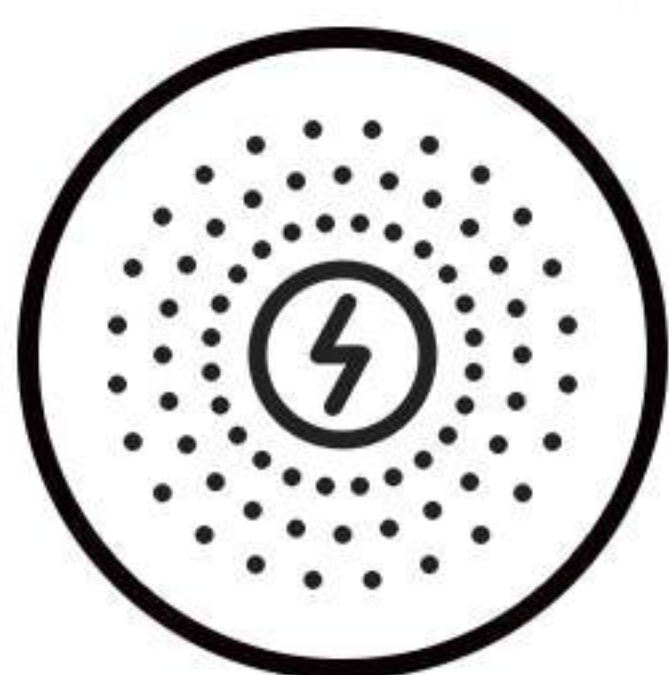


INFORMATION



Feature:

- *20A/30A/40A/60A/80A/100A MPPT Solar Controller
- *12V/24V, 12V/24V/48V, 96V automatic identification voltage
- *The latest MPPT algorithm automatically tracks the maximum power point of the solar panel. The MPPT tracking efficiency is up to 99% and the conversion efficiency is up to 98%.
- *Use DSP chip, digital with up to 12-bit precision guarantees the accuracy of MPPT
- *PV input voltage range is wide, users can choose different numbers of solar panels according to actual conditions.
- *Under the maximum efficiency of energy collection conditions, fast charging, absorption charging, floating charging, etc. are maintained to maintain the battery life.
- *Support lead-acid battery / gel battery, lithium battery, and user-defined battery
- *Can view PV voltage, PV power, battery voltage, charging current, operating temperature, fault code. The controller has overcharge, over discharge, overload, open circuit protection, over temperature protection, short circuit automatic protection



Introduction:

This MPPT solar controller can automatically identify the battery voltage level, suitable for 12V/24V, 12V/24V/48V, 96V battery; charging method uses optimized charging method for energy storage system, charging week. The period is divided into constant current absorption charging, constant voltage absorption charging, constant current floating charging, constant voltage floating charging four-stage charging to ensure the safety and longevity of the battery.



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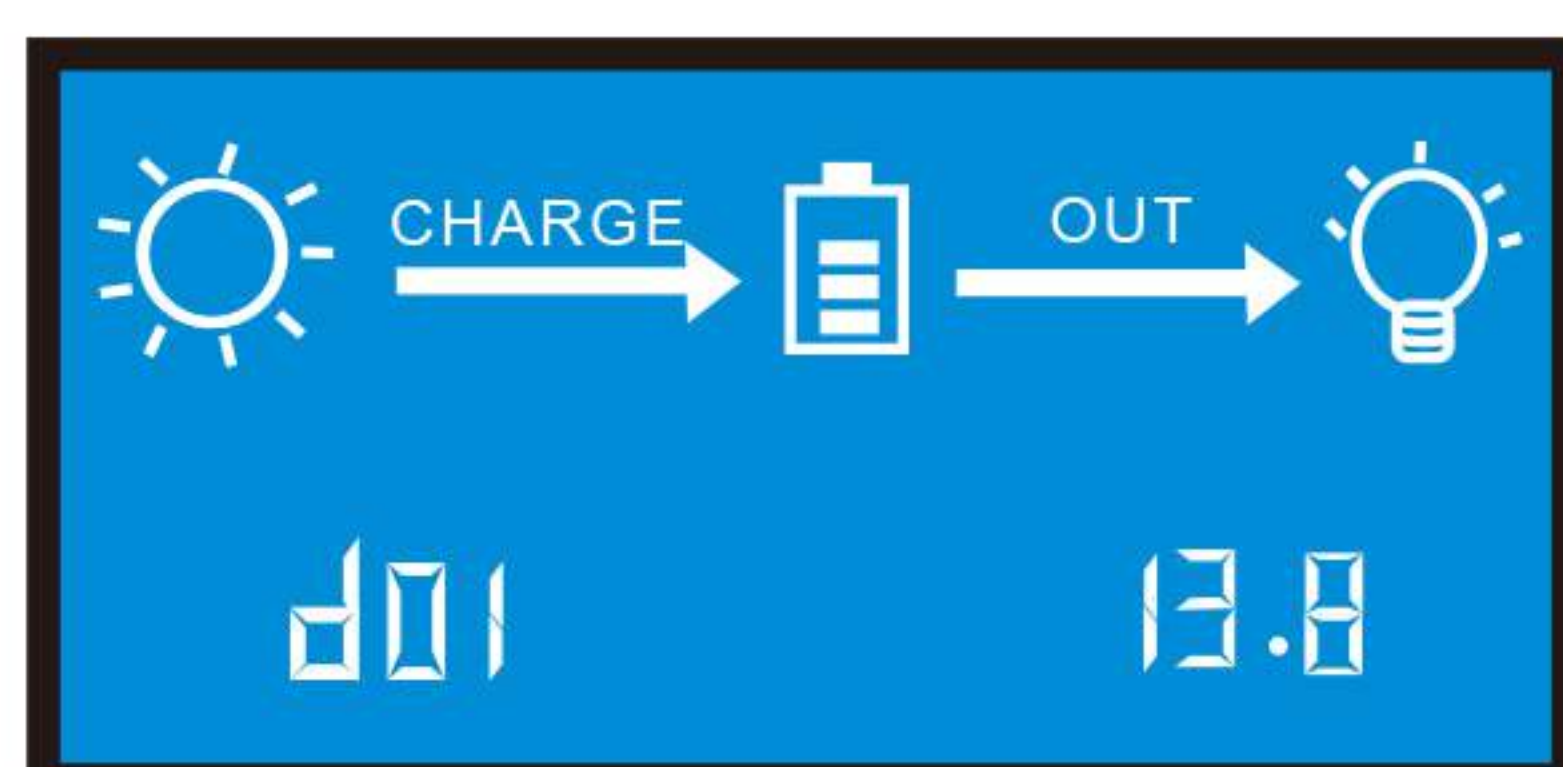
company: Xiamen Sweet Power Tech. Co., Ltd

SPECIFICATION

MODEL		SC-M-30A	SC-M-40A	SC-M-50A	SC-M-60A
MODEL	System	30A	40A	50A	60A
Maximum PV input power	12V system	400W	480W	600W	720W
	24V system	720W	960W	1200W	1440W
	36V system	1000W	1400W	1800W	2100W
	48V system	1200W	1700W	2200W	2800W
PV open circuit voltage requirement(Make sure the Voc of PV meeting the requirement as right. Voc is 1.5 or 2 times than battery, then it's best efficiency.)	12V system	DC20V-DC80V			
	24V system	DC37V-DC105V			
	36V system	DC50V-DC160V			
	48V system	DC72V-DC160V			
Maximum PV open circuit voltage (Voc)	12V system	DC190V(The controller can't work at this voltage of long duration that will break controller.Please refer to input voltage from PV)			
	24V system				
	36V system				
	48V system				
Basic Parameter	MPPT controller	12V system	24V system	36V system	48V system
	Overcharging protection voltage	15V	30V	45V	60V
	System voltage automatic recognition	DC9V-DC15V	DC18V-DC29V	DC30V-DC39V	DC40V-DC60V
	Max efficiency	>98.1% (Voc is 1.5 or 2 times than battery , then it's best efficiency)			
	PV utilization	d>99%			
Protection function	Temperature function	75℃			
	Fan-on temperature	>40℃			
	Fan-off temperature	<35℃			
Properties	Size	235*188*100mm			
	Net weight(kg)	1.1			
	Gross weight(kg)	1.6			

LCD DISPLAY INFOW MATIN

Item	Meanings
1	Photovoltaic cell Voltage
2	Battery voltage
	Photovoltaic cell current
3	Work mode
4	Fault protect



Item	Display	Meanings
d00	24	DC output time setting(H)
d01	13.8	Float voltage setting(V)
d02	14.5	BAT highest voltage setting(V)
d03	10.0	BAT Lowest voltage setting(V)
d04	00	Battery type selection Lead acid BAT 00,lithium BAT 01

LOW FREQUENCY PURE SINE WAVE INVERTER

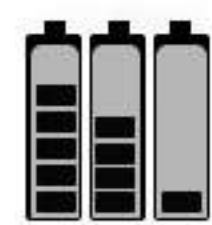
Split Phase Output Inverter



Temperature protection



over-discharge protection



over-charge protection



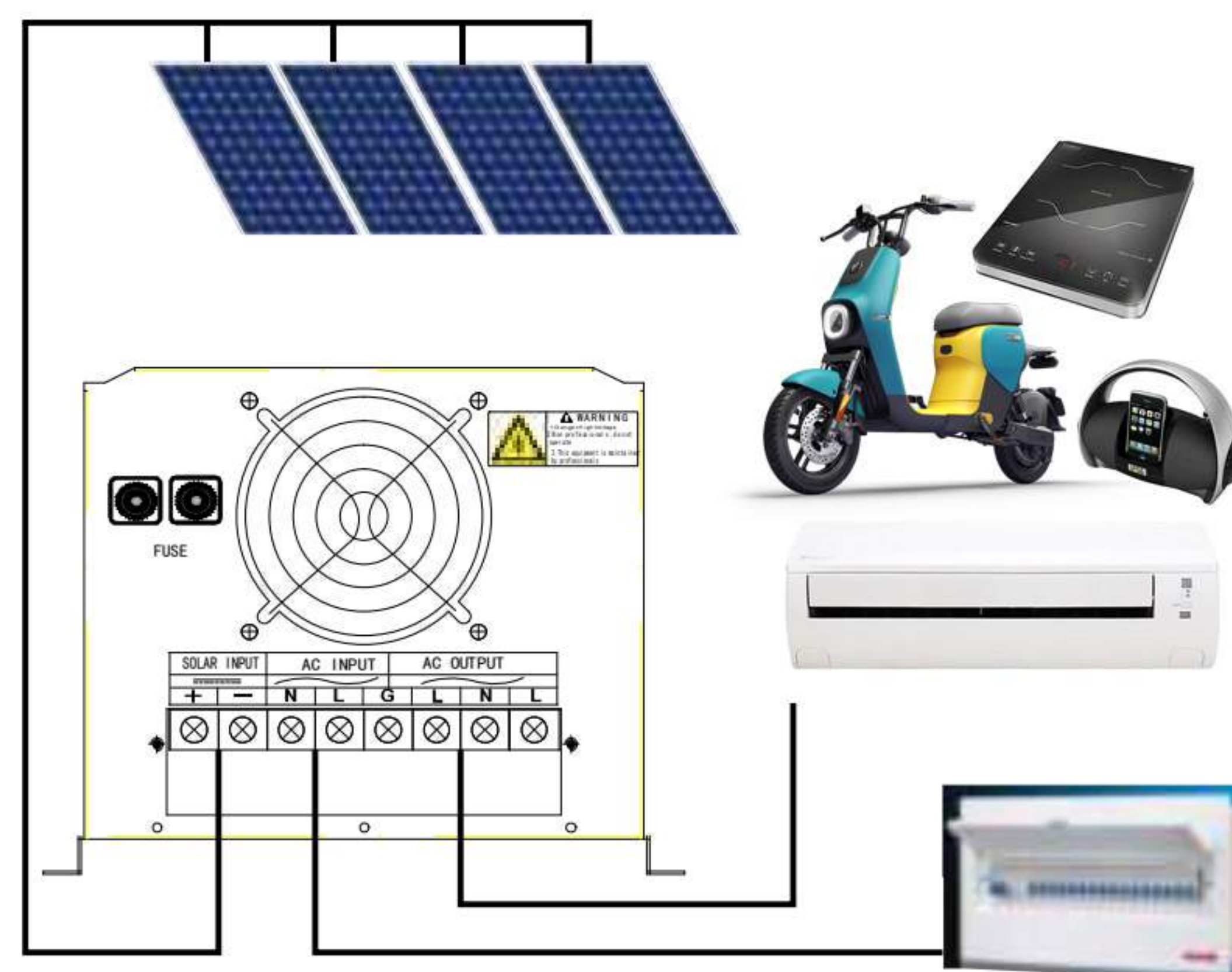
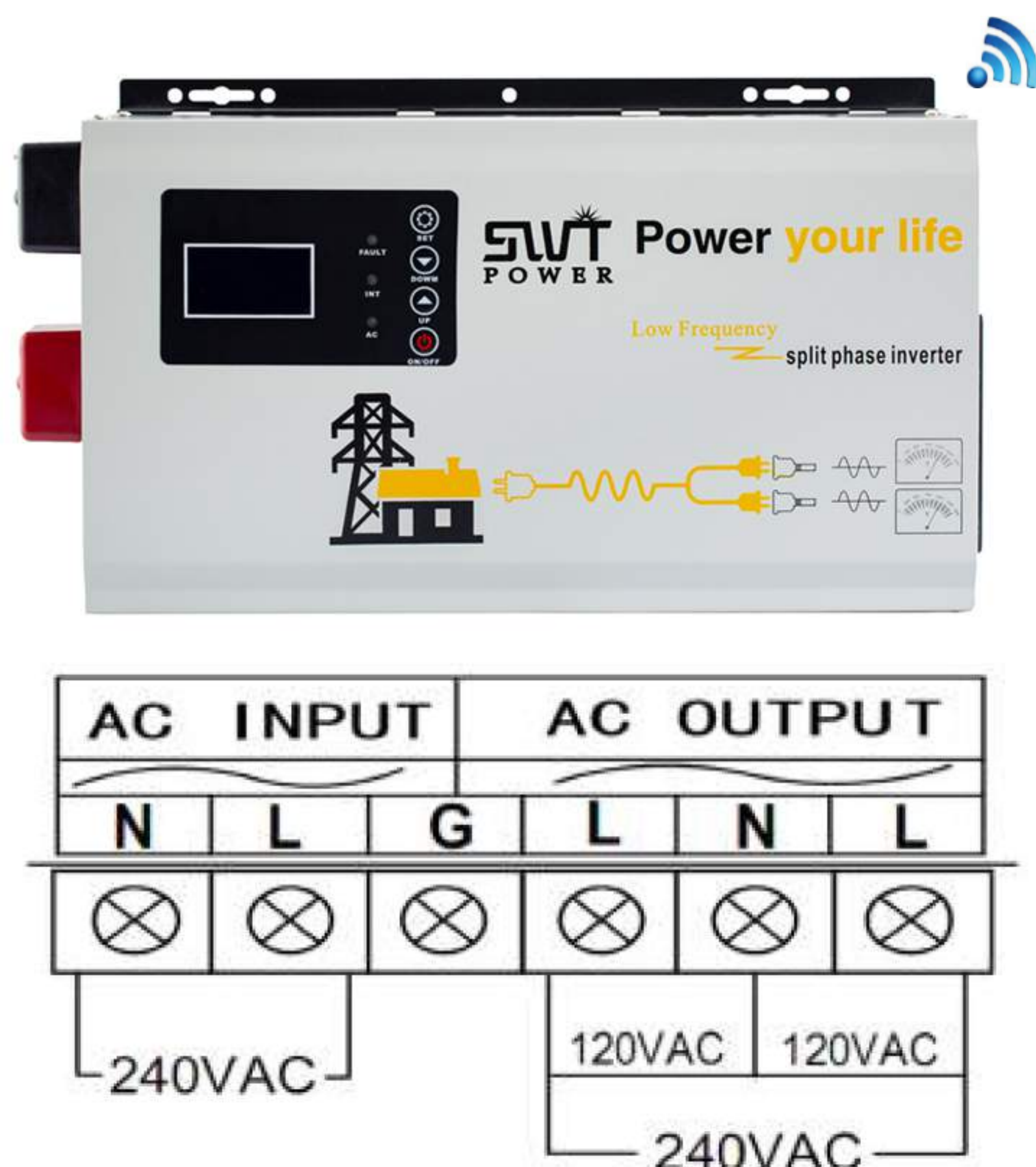
Over-current protection



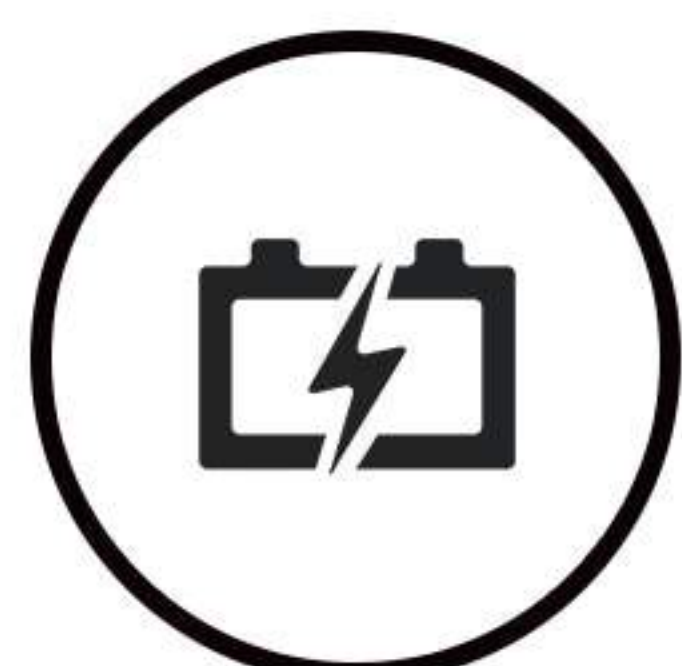
cell over-current



overload protection

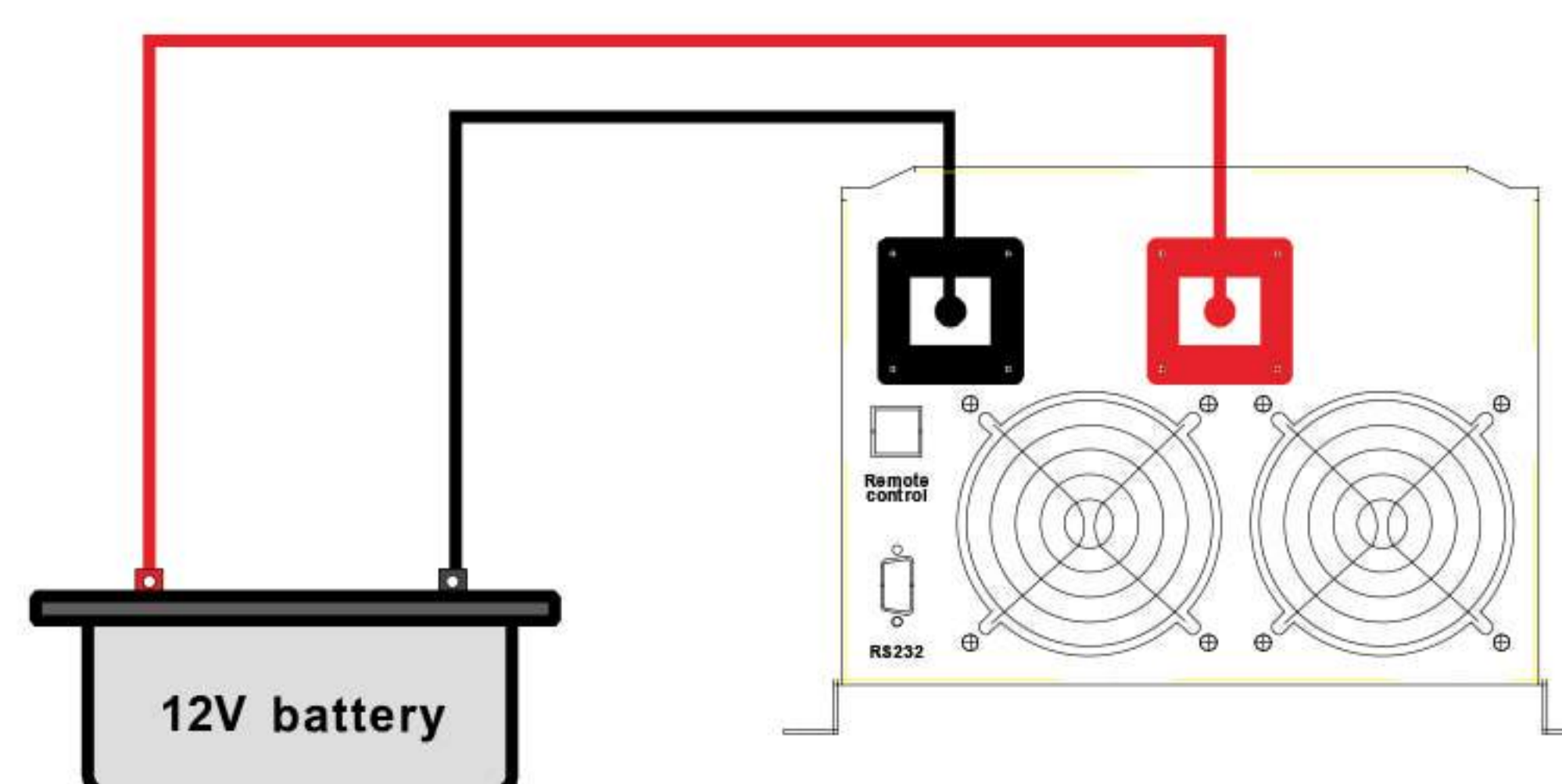
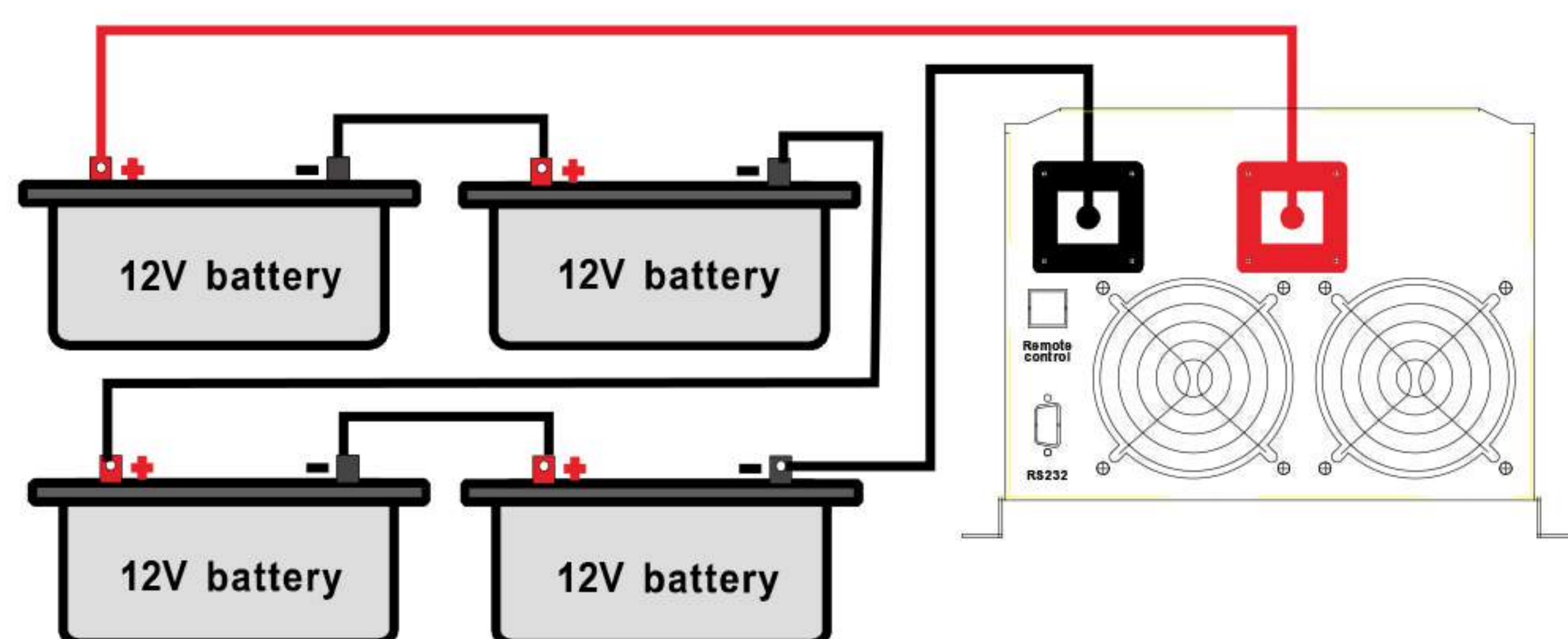


SOLAR SYSTEM CONNECTION



.Features:

- *Pure sine wave output, split phase output
- *With MPPT solar charge controller 30A-100A(Optional)
- *With UPS automatic switching function, grid power charging function, AVR voltage stabilization 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
- *Full personalized LCD display, it can display various data information of inverter, solar charge controller
- *Grid power priority, energy saving mode and solar energy priority can be set freely to meet different occasions
- *Battery type, charging voltage grid power charging current (0-35A) can be set freely to meet the charging management of different types of batteries



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company: Xiamen Sweet Power Tech. Co., Ltd

SPECIFICATION

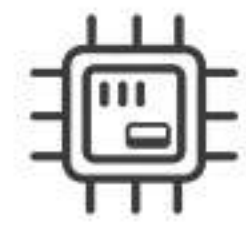
Model		1000W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W	
Default battery system voltage (VDC)		12VDC/24VDC/48VDC			24VDC/48VDC/96VDC			48VDC/96VDC			
Inverter Output	Rated power	1000W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W	
	Surge rating (20ms)	3000W	6000W	9000W	12000W	15000W	18000W	24000W	30000W	36000W	
	Capable of starting electric Motor	0.5HP	1HP	2HP	2HP	3HP	3HP	4HP	5HP	6HP	
	Wave form	Pure sine wave/ Same as input (AC mode)									
	Nominal output voltage RMS	110/120VAC (L-N) & 220/230/240VAC (L-L) ± 10RMS									
	Output frequency	50Hz/60Hz±0.3Hz									
	Inverter efficiency(Peak)	>85%									
	Line mode efficiency	>95%									
	Typical transfer time	8ms(Max)									
	Built-in AVR stablizer(AC voltage)	110/120/220/230/240VAC			220/230/240VAC			-----			
AC Input	Voltage	110/120VAC (L-N) & 220/230/240VAC (L-L) ± 10RMS									
	Selectable voltage range	85-138VAC(AC:110)			170-275VAC(AC:220)			180-260VAC(AC:220)			
	Frequency range	50Hz:45-65Hz 60Hz:55-65Hz 50Hz/60Hz(Auto sensing)									
Battery	Low battery protection	10VDC±0.3V (12VDC),20VDC±0.3V (24VDC),40 VDC±0.3V (48VDC),80 VDC±0.3V (96VDC)									
	Low battery cutoff	10.5VDC±0.3V (12VDC),21VDC±0.3V (24VDC),42 VDC±0.3V (48VDC),84VDC±0.3V (96VDC)									
	High Battery alarm	15VDC±0.3V (12VDC),30VDC±0.3V (24VDC),60 VDC±0.3V (48VDC),120 VDC±0.3V (96VDC)									
	High Battery protection	16.5VDC±0.3V (12VDC),33VDC±0.3V (24VDC),66VDC±0.3V (48VDC),132VDC±0.3V (96VDC)									
AC Charger	Maximum charge current	0-35A(Set by yourself)									
Protection	Over load protection	Rated power over 110%,shut down automatically									
	Temperature protection	Built-in temperature sensor real-time induction, ≥85 alarm, ≥85 shut down the whole machine									
	Short circuit protection	Automatic Shutdown									
Solar Charge Controller	Max solar charging current	30A,40A,50A,60A,80A			50A,60A,100A,120A						
	Voltage	12V,24V,48V,96V									
	Max PV input power	12V-30A:360W,12V-50A:600W,12V-60A:720W,12V-80A:960W,12V-100A:1200W,12V-120A:1440W									
		24V-30A:720W,24V-50A:1200W,24V-60A:1440W,24V-80A:1920W,24V-100A:2400W,24V-120A:2880W									
		48V-30A:1440W,48V-50A:2400W,48V-60A:2880W,48V-80A:3840W,48V-100A:4800W,48V-120A:5760W									
		96V-50A:4800W,96V-60A:5760W,96V-100A:9600W,96V-120A:11520W									
PV array MPPT voltage range	12V:18V-100V,24V:36V-100V,48V:72V-150V,96V:144V-280V										
Peak conversion efficiency	>99%										
Other	Mounting	Wall mount									
	Display	LCD+LED									
	Cooling fan	Intelligent fan cooling system									
	Audible noise	<60dB									
	Coommunications	RS-232,SNMP(Optional)									
	Operation temperature range	-10°C~70°C									
	Storage temperature	-10°C~60°C									
Appearance	Product size(L*W*H)	510*325*215			645*325*215			765*320*250			
	Packing size(L*W*H)	580*385*270			725*410*290			840*405*320			
	Net weight(Kg)	16	19	22	31	33	35	55	61	67	
	Gross weight(Kg)	18	21	24	34	36	38	59	65	71	

LOW FREQUENCY PURE SINE WAVE INVERTER

Split Phase Output Inverter



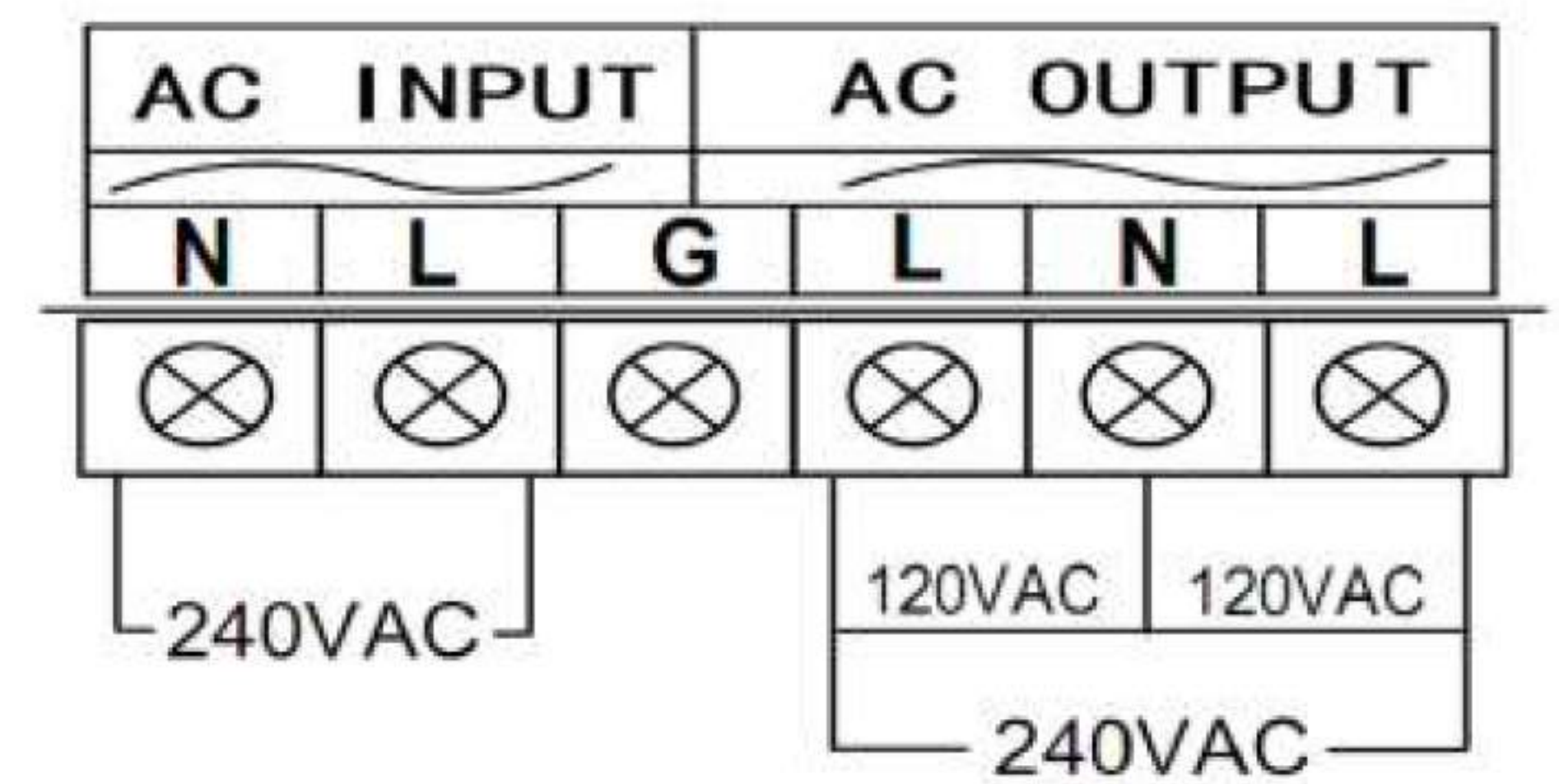
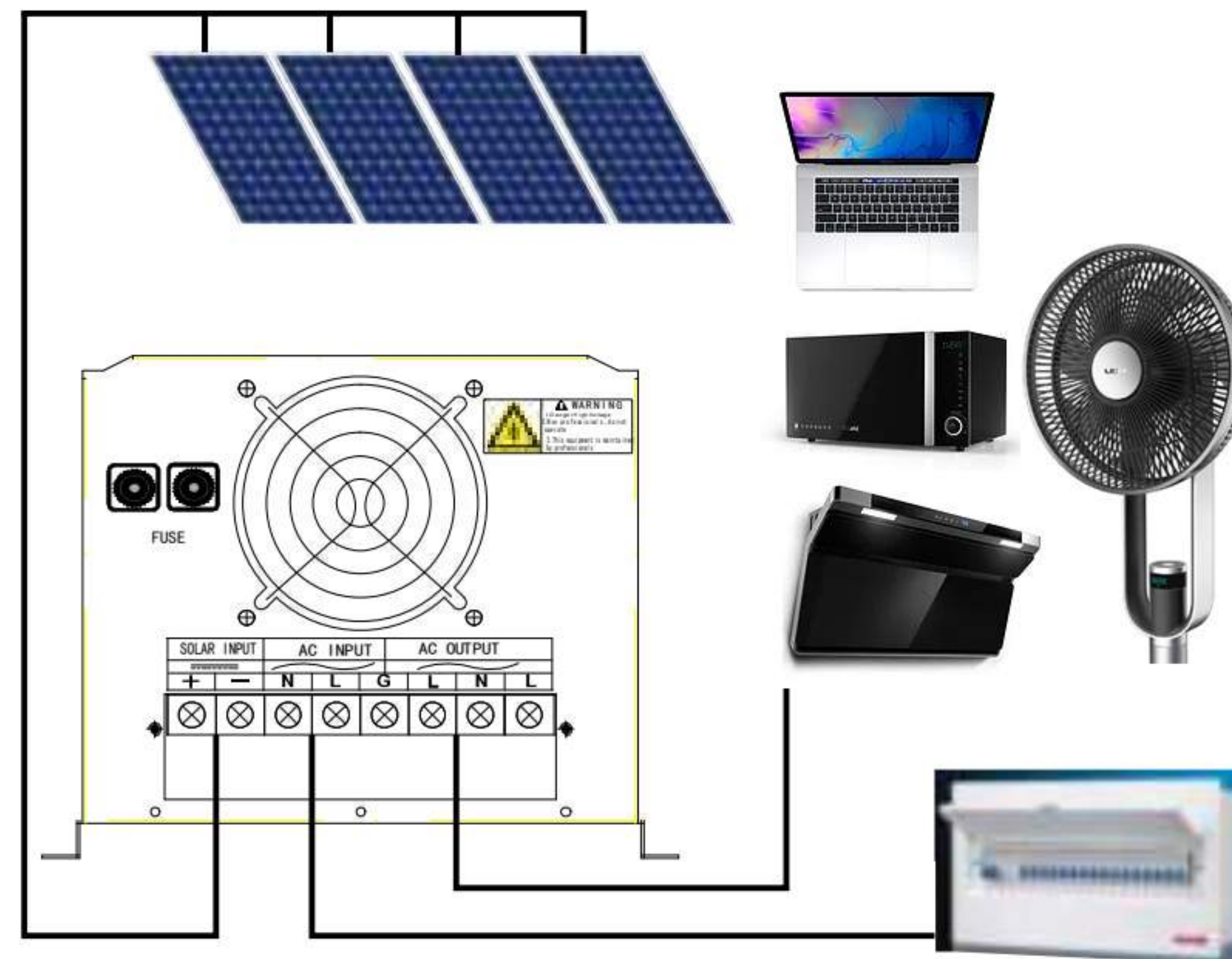
Overvoltage protection



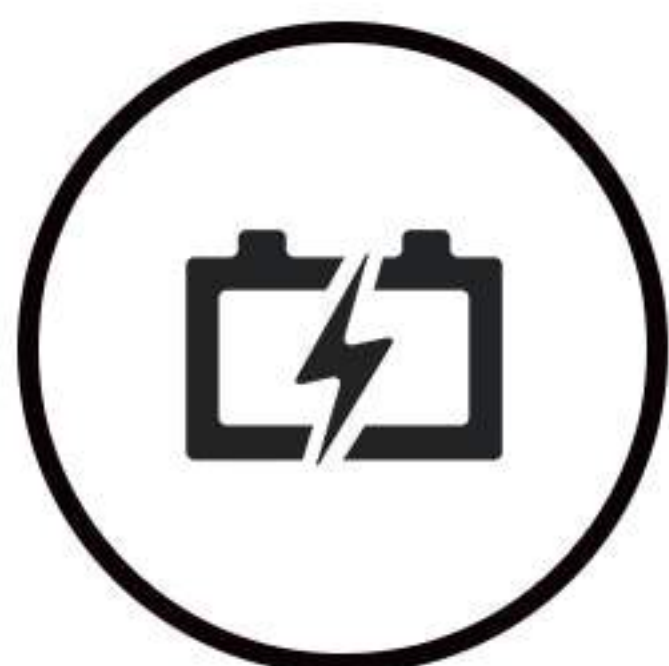
cell overvoltage



Short circuit protection

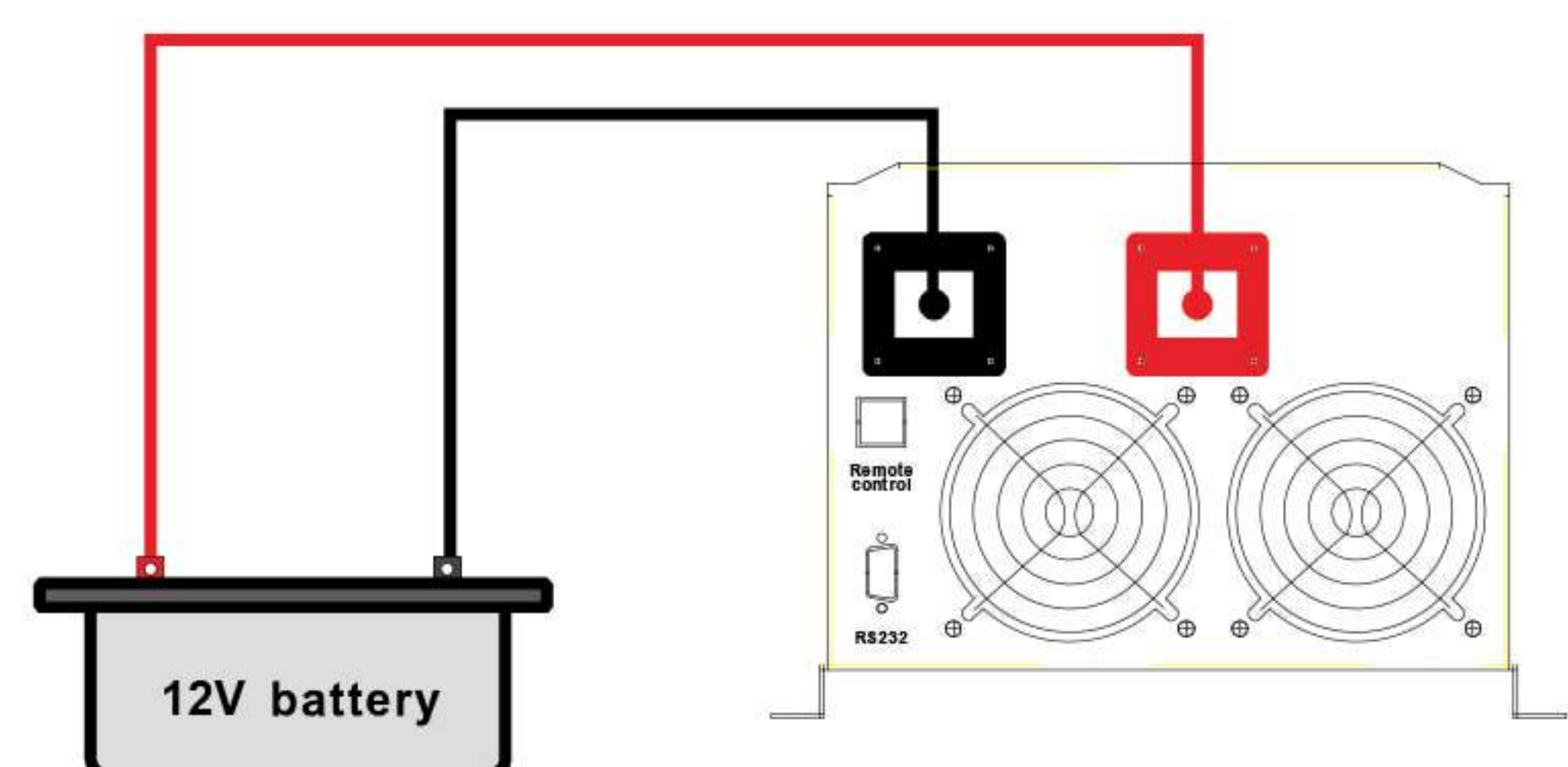
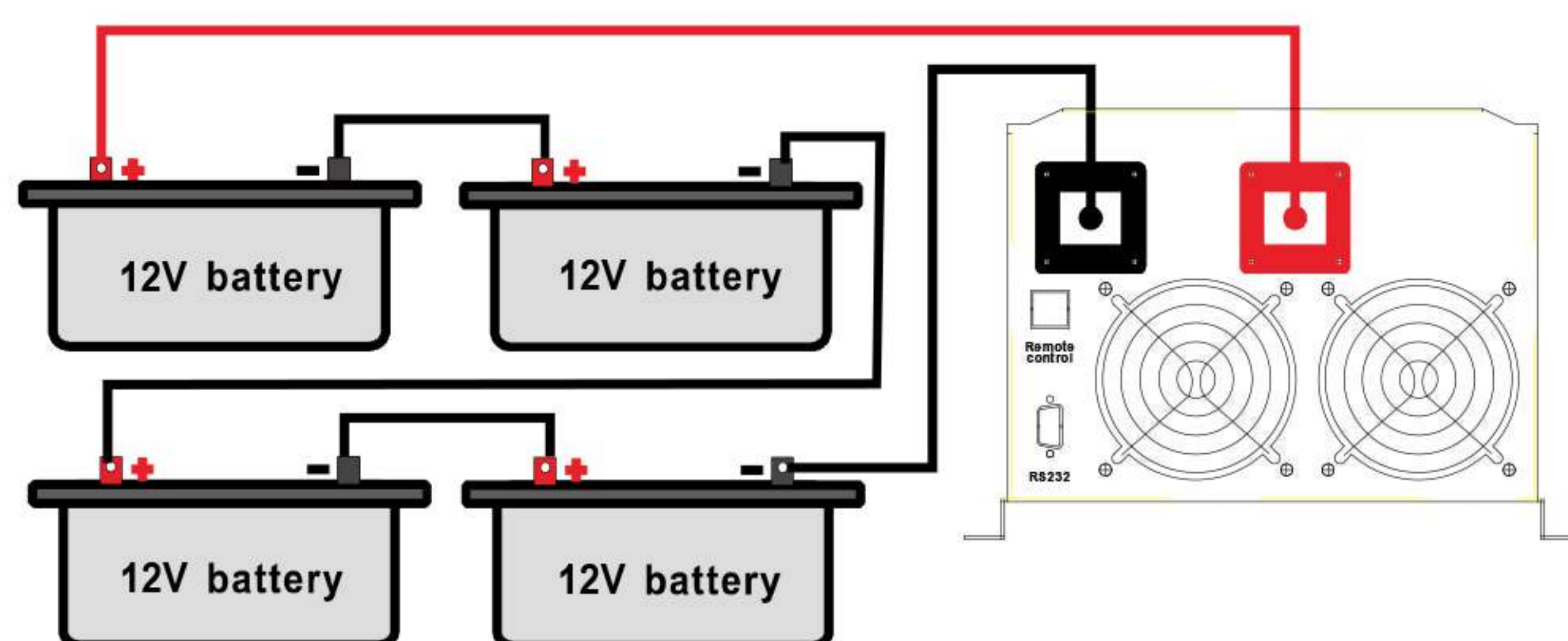


SOLAR SYSTEM CONNECTION



Features:

- *Pure sine wave output, split phase output
- *With MPPT solar charge controller 30A-100A(Optional)
- *With UPS automatic switching function, grid power charging function, AVR voltage stabilization 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
- *Full personalized LCD display, it can display various data information of inverter, solar charge controller
- *Grid power priority, energy saving mode and solar energy priority can be set freely to meet different occasions
- *Battery type, charging voltage grid power charging current(0-35A) can be set freely to meet the charging management of different types of batteries



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company: Xiamen Sweet Power Tech. Co., Ltd

SPECIFICATION

Model		1000W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W
Default battery system voltage (VDC)		12VDC/24VDC/48VDC			24VDC/48VDC/96VDC			48VDC/96VDC		
Inverter Output	Rated power	1000W	2000W	3000W	4000W	5000W	6000W	8000W	10000W	12000W
	Surge rating (20ms)	3000W	6000W	9000W	12000W	15000W	18000W	24000W	30000W	36000W
	Capable of starting electric Motor	0.5HP	1HP	2HP	2HP	3HP	3HP	4HP	5HP	6HP
	Wave form	Pure sine wave/ Same as input (AC mode)								
	Nominal output voltage RMS	110/120VAC (L-N) & 220/230/240VAC (L-L) ± 10RMS								
	Output frequency	50Hz/60Hz±0.3Hz								
	Inverter efficiency(Peak)	>85%								
	Line mode efficiency	>95%								
	Typical transfer time	8ms(Max)								
	Built-in AVR stabilizer(AC voltage)	110/120/220/230/240VAC			220/230/240VAC			-----		
AC Input	Voltage	110/120VAC (L-N) & 220/230/240VAC (L-L) ± 10RMS								
	Selectable voltage range	85-138VAC(AC:110)			170-275VAC(AC:220)			180-260VAC(AC:220)		
	Frequency range	50Hz:45-65Hz 60Hz:55-65Hz 50Hz/60Hz(Auto sensing)								
Battery	Low battery protection	10VDC±0.3V (12VDC),20VDC±0.3V (24VDC),40 VDC±0.3V (48VDC),80 VDC±0.3V (96VDC)								
	Low battery cutoff	10.5VDC±0.3V (12VDC),21VDC±0.3V (24VDC),42 VDC±0.3V (48VDC),84VDC±0.3V (96VDC)								
	High Battery alarm	15VDC±0.3V (12VDC),30VDC±0.3V (24VDC),60 VDC±0.3V (48VDC),120 VDC±0.3V (96VDC)								
	High Battery protection	16.5VDC±0.3V (12VDC),33VDC±0.3V (24VDC),66VDC±0.3V (48VDC),132VDC±0.3V (96VDC)								
AC Charger	Maximum charge current	0-35A(Set by yourself)								
Protection	Over load protection	Rated power over 110%,shut down automatically								
	Temperature protection	Built-in temperature sensor real-time induction, ≥85 alarm, ≥85 shut down the whole machine								
	Short circuit protection	Automatic Shutdown								
Solar Charge Controller	Max solar charging current				30A,40A,50A,60A,80A			50A,60A,100A,120A		
	Voltage	12V,24V,48V,96V								
	Max PV input power	12V-30A:360W,12V-50A:600W,12V-60A:720W,12V-80A:960W,12V-100A:1200W,12V-120A:1440W								
		24V-30A:720W,24V-50A:1200W,24V-60A:1440W,24V-80A:1920W,24V-100A:2400W,24V-120A:2880W								
		48V-30A:1440W,48V-50A:2400W,48V-60A:2880W,48V-80A:3840W,48V-100A:4800W,48V-120A:5760W								
	96V-50A:4800W,96V-60A:5760W,96V-100A:9600W,96V-120A:11520W									
PV array MPPT voltage range	12V:18V-100V,24V:36V-100V,48V:72V-150V,96V:144V-280V									
Peak conversion efficiency	>99%									
Other	Mounting	Wall mount								
	Display	LCD+LED								
	Cooling fan	Intelligent fan cooling system								
	Audible noise	<60dB								
	Communications	RS-232,SNMP(Optional)								
	Operation temperature range	-10°C~70°C								
	Storage temperature	-10°C~60°C								
Appearance	Product size(L*W*H)	510*325*215			645*325*215			765*320*250		
	Packing size(L*W*H)	580*385*270			725*410*290			840*405*320		
	Net weight(Kg)	16	19	22	31	33	35	55	61	67
	Gross weight(Kg)	18	21	24	34	36	38	59	65	71

LOW FREQUENCY SOLAR GENERATOR

LF-SG Seris



Strong output



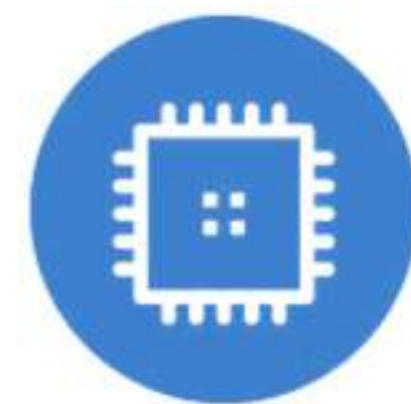
long-lasting



multi-output



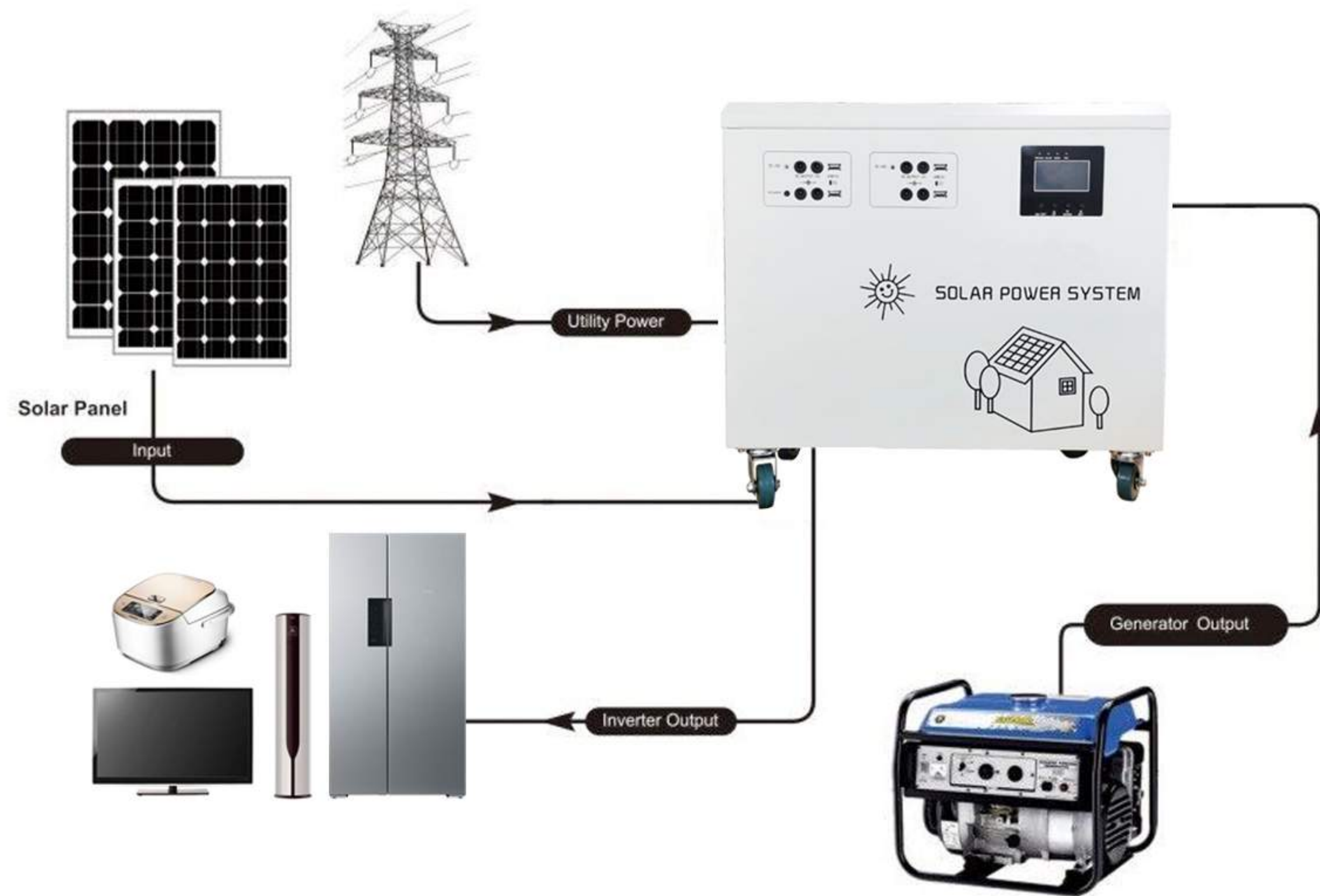
Screen display



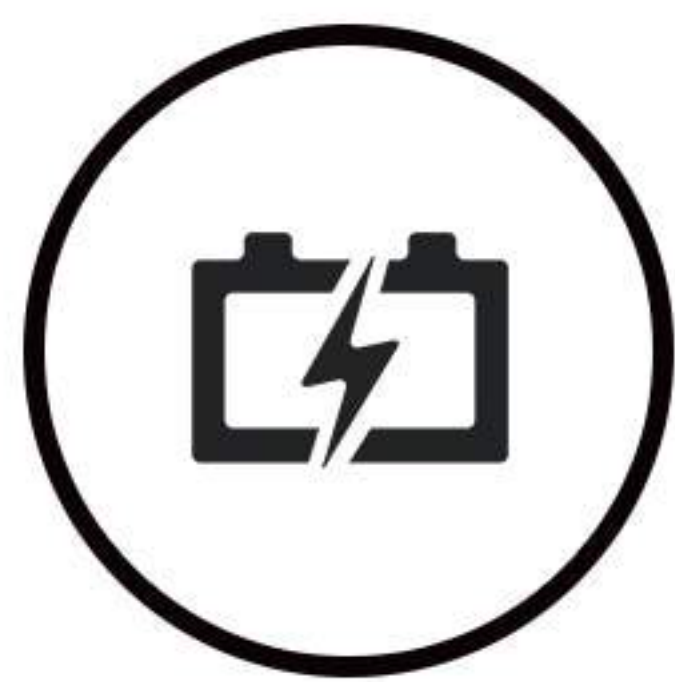
smart chip



special quick charge

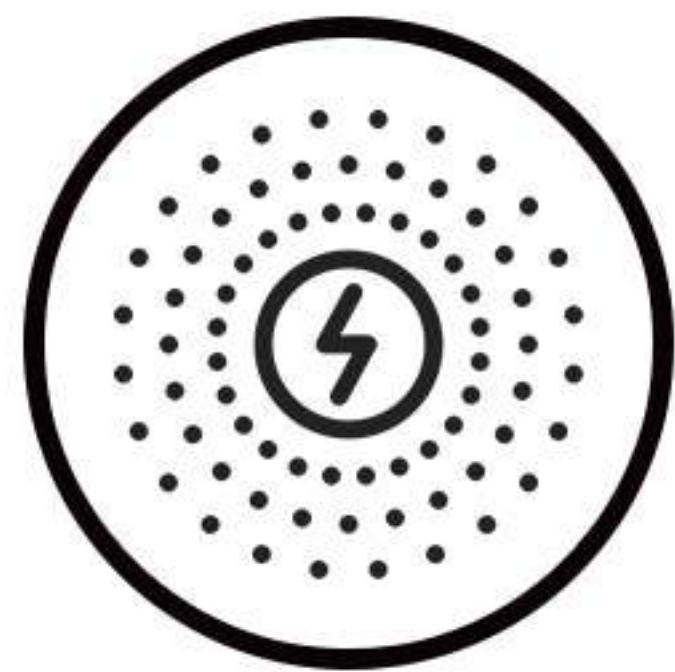


INFORMATION



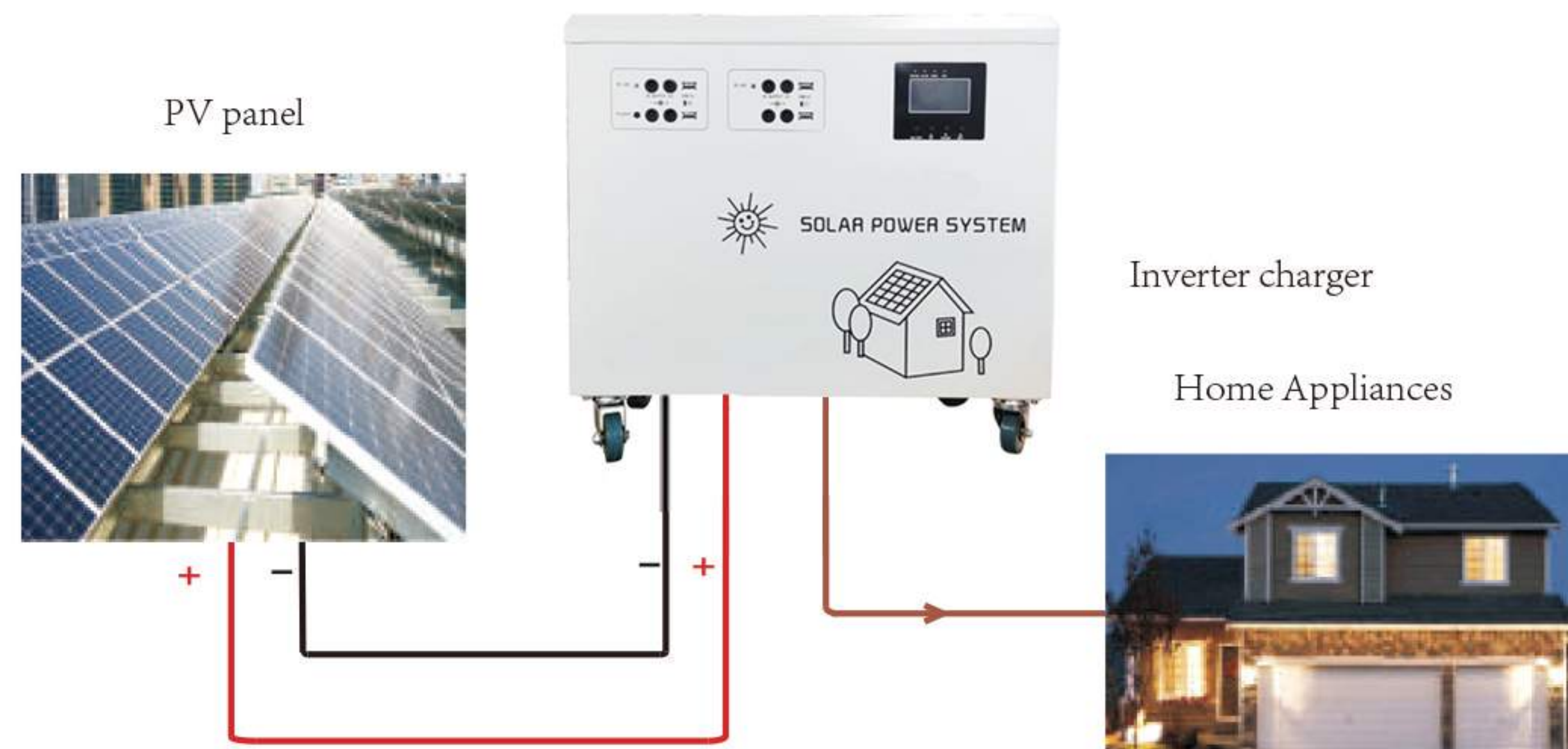
.Features:

- *Rated power 300W to 3000W
- *Pure sine wave output
- *Built in MPPT or PWM solar controller & Battery
- *Can choose different types of batteries
- *High-low voltage protection
- *Against overload, short-circuit Protection
- *Over voltage, battery reverse connection(optional)
- *Under-voltage and over-temperature protection
- *Selectable battery priority or utility priority
- *Have UPS function and 15A AC charge



Introduction:

This is a pure sine wave inverter with PWM or high efficiency MPPT solar controller, LCD display offer users-configurable and clear data .It can use for solar power system ,light, radio, DVD, TV set, fans, freezer, computers, small hand-drill, communicationl equipment and the other house appliance



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SPECIFICATION

MODEL		LF-SG-300W	LF-SG-500W	LF-SG-700W	LF-SG-1000W	LF-SG-2000W	LF-SG-3000W
Nominal System		300W	500W	700W	1000W	2000W	3000W
INVERTER OUTPUT & INPUT	Rated Power	300W	500W	700W	1000W	2000W	3000W
	Peak Power	600W	1000W	1400W	2000W	4000W	6000W
	Output Waveform	Pure Sine Wave					
	Output Voltage	110VAC/120VAC/ 220VAC/230VAC ±2%					
	Input Frequency Range	45Hz-65Hz					
	Output Frequency Range	50Hz/60Hz ±10%					
	Conversion Time	≤5ms					
	Cooling Method	Intelligent fan cooling, ≤42°C fan rotates slowly, ≥45°C fan rotates fast					
AC INPUT&OUTPUT	Input Voltage Range	70V-135VAC(110VAC/120VAC) 140V-275VAC(220VAC/230VAC)					
	Output Voltage Range	AVR output 110VAC/120VAC/ 220VAC/230VAC±10%					
	Output Frequency Range	Automatic tracking					
	AC Charging Current:	15A					
Solar Controller	PWM solar controller	10A/20A/30A(Optional)				30A/40A/50A/60A	
	Solar input	120w/240w/360w				720W/960W/1200W/1440W	
BATTERY	Nominal Voltage	12VDC				24VDC	
	DC Voltage	10.5V-15VDC				21-30VDC	
	Battery capacity	60AH*1PCS		100AH*1PCS		200AH*2PCS	
	Battery Under Voltage Alarm	10.5VDC				21VDC	
	Battery Under Voltage Protection	10VDC				20VDC	
	Battery Over Voltage Alarm	17V±0.5V				34V±0.5V	
	Battery Over Voltage Protection	13V-16VDC				30V±32V	
Optional Working Modes:	<p>Free to Choose(SET)</p> <p>01: AC/City power priority :</p> <p>City power will supply power to the loads as first priority .</p> <p>City power will charge battery at the same time.</p> <p>Solar and battery energy will provide power to the loads only when utility power is not available.</p> <p>02: energy saving mode</p> <p>load power ≤10% the machine turn off, ≥11% -100% turn on</p> <p>03: Battery priority</p> <p>Sun power will go through the battery and provides power to the loads as first priority .</p> <p>If Solar energy is not sufficient to power all connected loads or the battery voltage ≤10.5V, city power will supply power to the load. Until the battery voltage reaches 13V.</p> <p>Inverter will use sun power and battery power again.</p>						
PROTECTION	Overload Protection	Rated power of 110% or more					
	Temperature Protection	≥85 °C alarm, ≥90 °C off the machine					
	High-low voltage protection, Short Circuit Protection, Against Overload,						
	Battery reverse connection, over voltage						
	Under-voltage and over-temperature protection						
MECHANICAL SPECIFICATIONS	External Size (W*H*D)	380*192*415mm		605*220*475mm		625*290*885mm	
	Package Size (W*H*D)	430*230*455mm		655*260*525*mm		770*335*930mm	
	Net Weight (kg)	10	11	13	15	51	57
OTHER	Priority	Selectable battery priority or utility priority					
	Other Function	UPS					
	Display	LCD					

FACTORY TOUR



HIGH FREQUENCY HYBRID OFF GRID WITHOUT BATTERY

HF-NB Series



Long-lasting battery life



Intelligent protection



Convenience



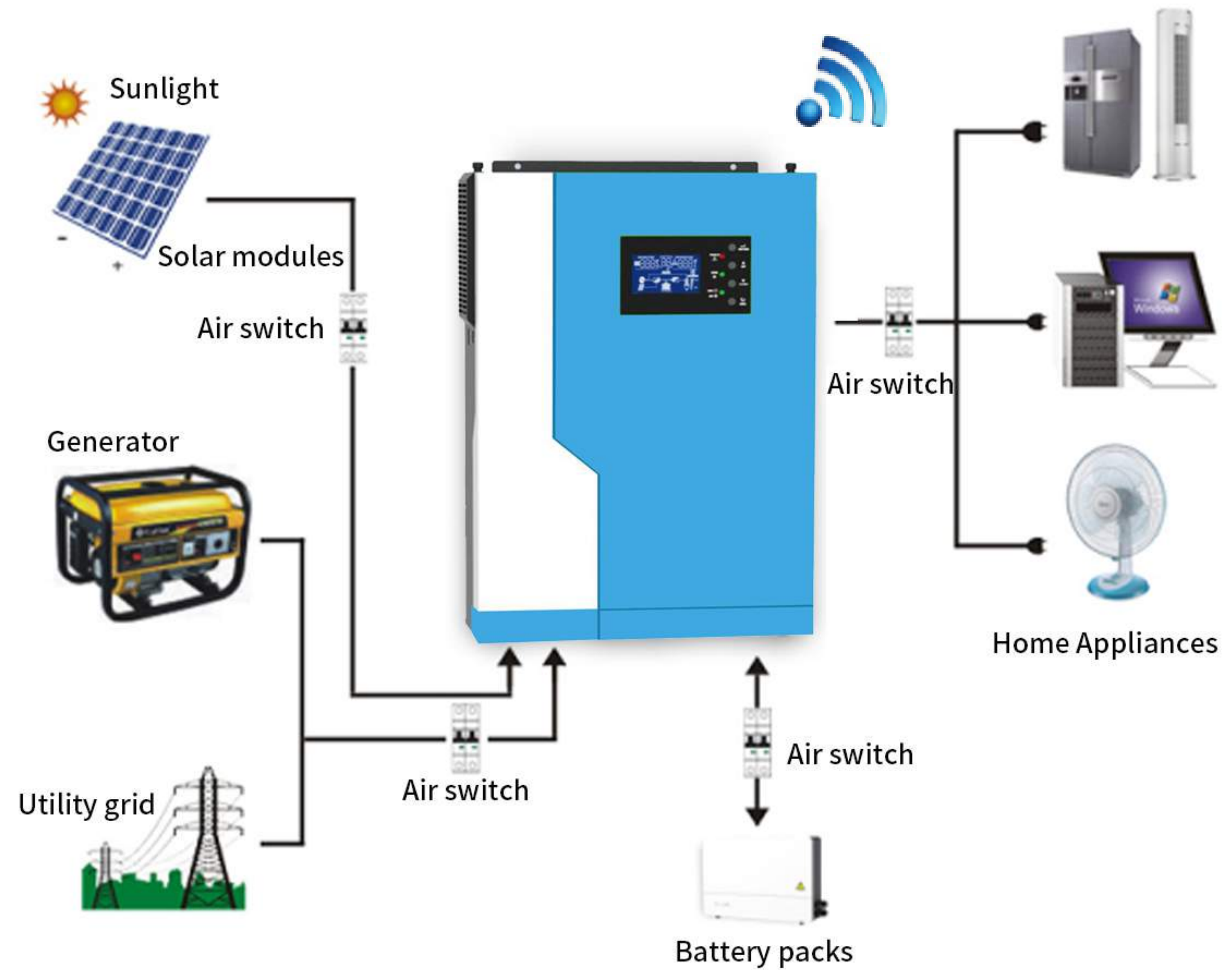
80A High Current



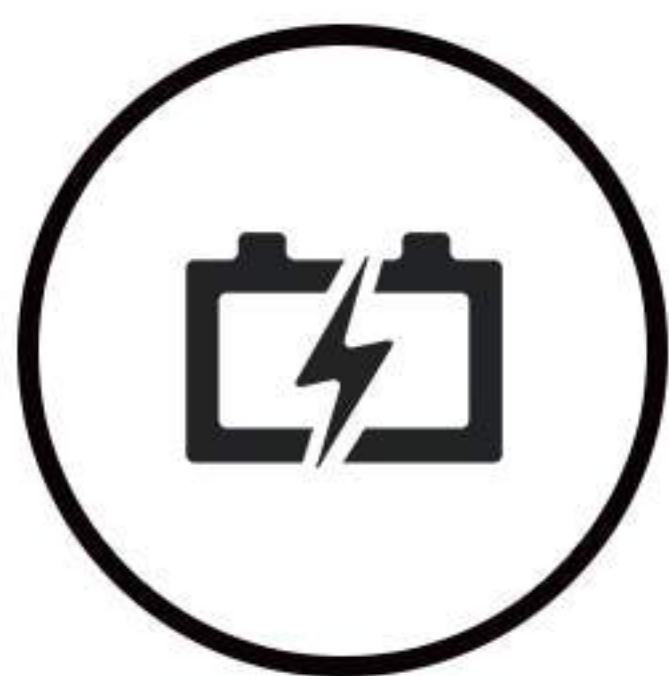
Deep Waterproof



LiFePO4 Electric core

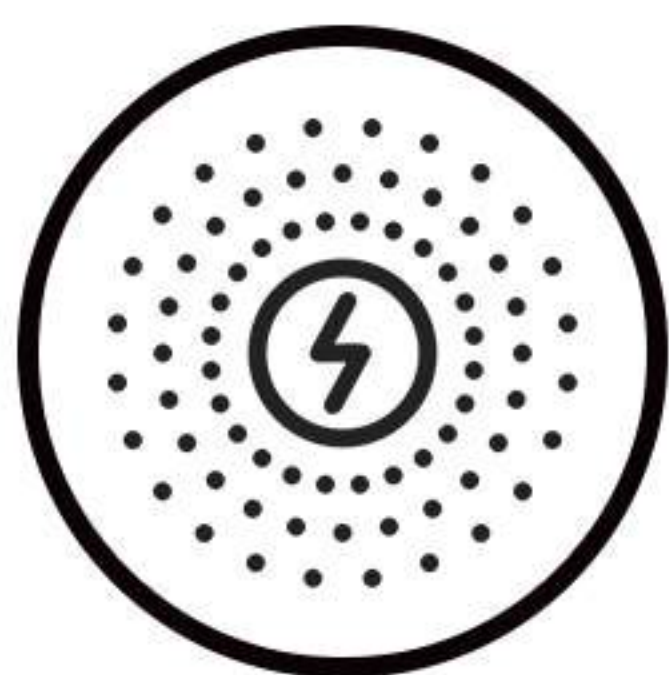


INFORMATION



Features:

- *Integrates:high efficiency pure sine wave inverter(PF=1);wide PV input range(120Vdc--500Vdc)80A MPPT SCC;intelligent 3 stage
- *80A AC battery charger.
- *Surges to 2X continuous power for 5 seconds for motor loads.
- *Intelligent functionality enables utility and solar input prioritization.
- *Wide utility input range(90Vac--280Vac)for unreliable grid even in the most challenging environments.
- *Field serviceable with replacement boards and spare parts.
- *Overload and short circuit protection
- *Monitor, troubleshoot, or communication with USB/RS232.
- *System configures quickly into compact, wall-mounted system.



Introduction:

The HF-NB series is pure sine wave inverter with the perfect go-to solution for off-grid,backup power for homes,small business, and it also delivers a value added,easy to install system that provides efficient power globally for every need.



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SPECIFICATION

MODEL		HF-NB-3.5K	HF-NB-5.5K
MODEL		3500-24V	5500-48V
INVERTER OUTPUT & INPUT	Rated Power	3500VA/3500W	5500VA/5500W
	Output Waveform	Pure Sine Wave	
	Input Voltage	230VAC	
	Selectable Voltage Range	170-280 VAC(For Personal Computers)	90-280 VAC(For Home Appliances)
	Output Frequency Range	50Hz/60Hz(Auto sensing)	
	AC Output Voltage regulation(Batt. Mode)	230VAC±5%	
	Surge Power	7000VA	11000VA
	Efficiency (Peak) PV to INV.	97%	
	Efficiency (Peak) Battery to INV.	94%	
	Transfer Time	10 ms (For Personal Computers)	20 ms(For Home Appliances)
SOLAR CHARGER	Maximum PV Array Power	5000W	6000W
	MPPT Range@Operating Voltage	120~450VDCVDC	
	Maximum PV Array Open Circuit Voltage	500VDC	
	Maximum Charging Current	100A	100A
	Maximum Efficiency	98%	
	Standby Power Consumption	2W	
BATTERY & AC CHARGER	Battery Voltage	24VDC	48VDC
	Floating Charge Voltage	27VDC	54VDC
	Overcharge Protection	33VDC	63VDC
	Maximum Charge Current	100A	100A
OPERATING ENVIRONMENT	Humidity	5% to 95% Relative Humidity (Non-condensing)	
	Operating Temperature	0 °C~55 °C	
	Operating Temperature	-15 °C ~ 60 °C	
PHYSICAL	Dimension, DxWxH(mm)	450*300*100mm	
	Net Weight (kg)	11	12
	Communication Interface	USB/RS232/GPRS/WIFI	

PRODUCT DEMONSTRATION



HYBRID ON OFF GRID INVERTER

HY-NB SERIES



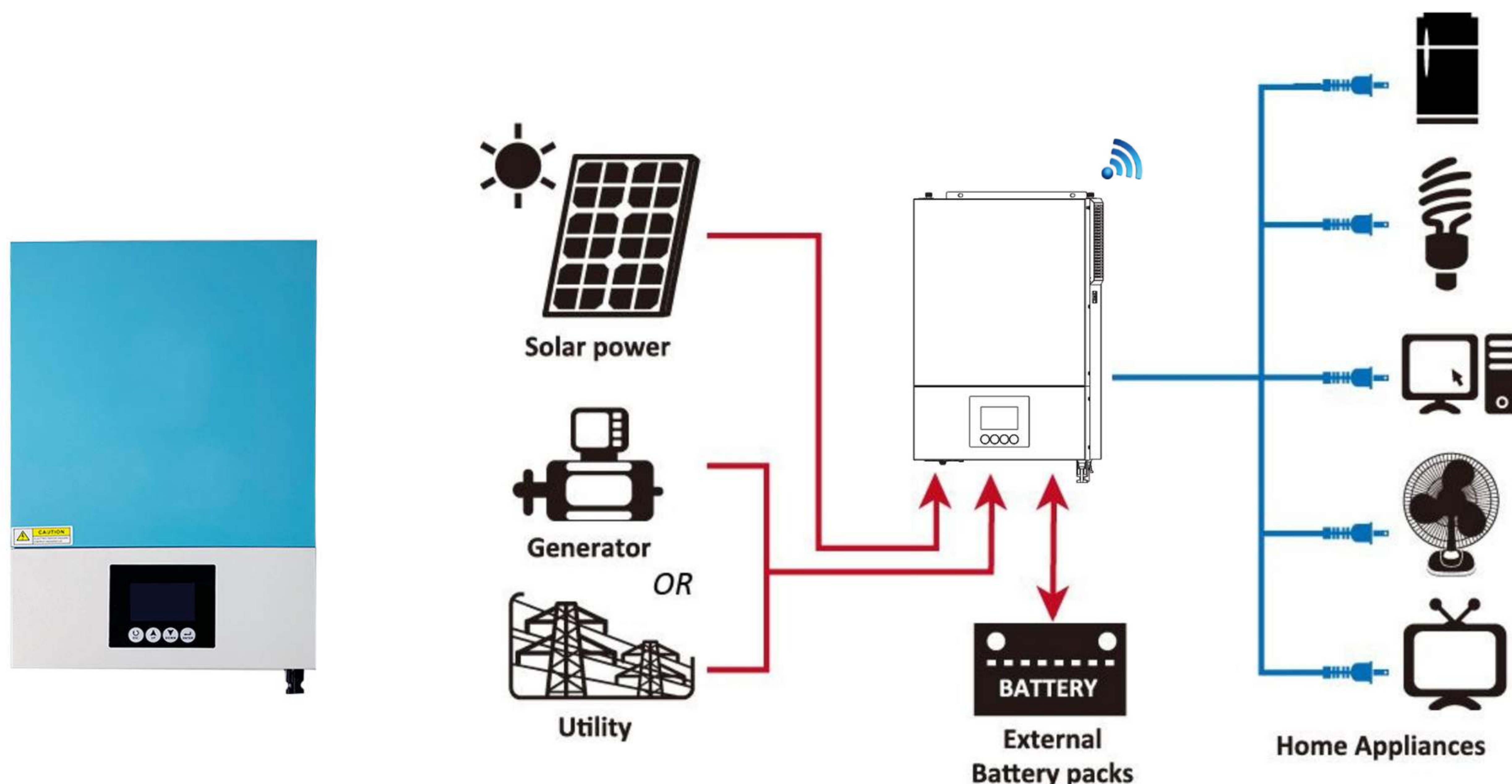
LCD display



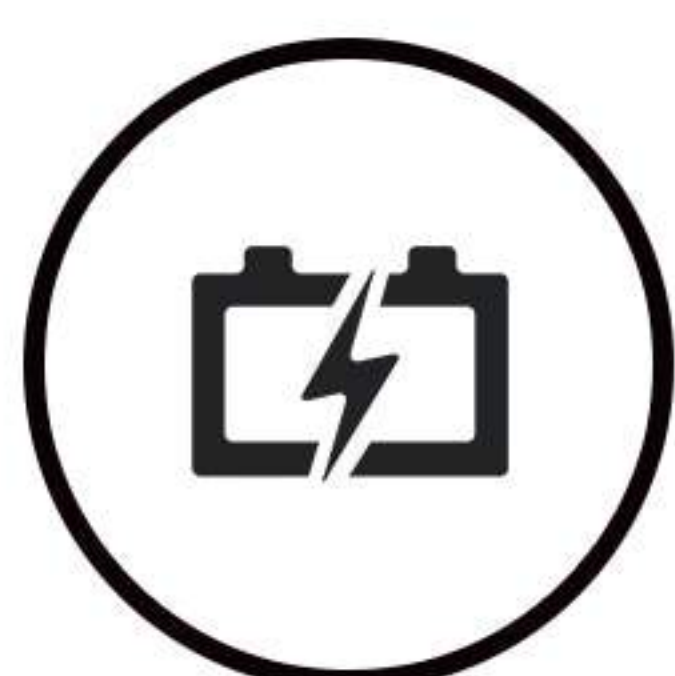
Status indicator



Charging indicator

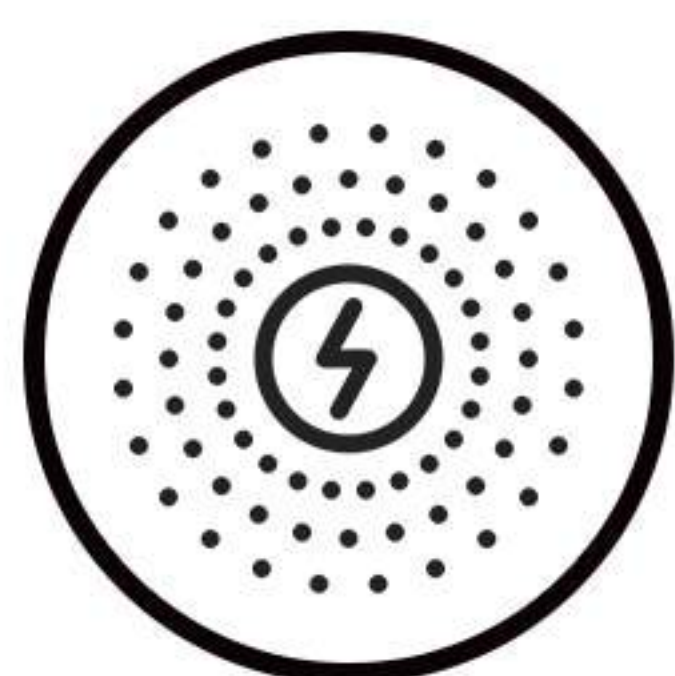


SYSTEM CONNECTION



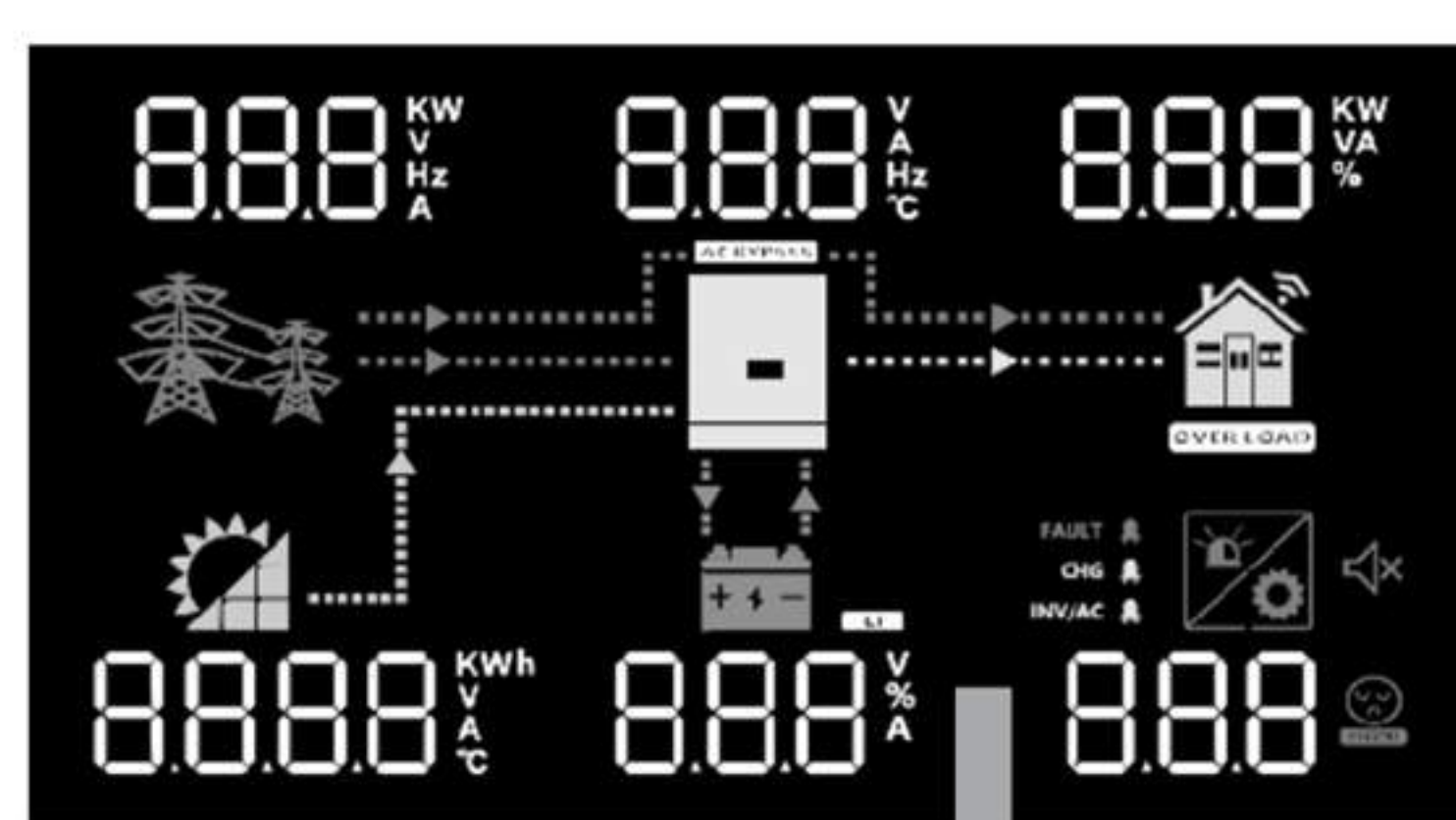
.Features:

- *Pure sine wave inverter
- *Configurable input voltage range for home appliances and personal computers via LCD setting
- *Configurable battery charging
- *Current based on applications via LCD setting
- *Configurable AC/Solar Charger priority via LCD setting
- *Compatible to mains voltage or generator power
- *Auto restart while AC is recovering
- *Overload/ Over temperature/ short circuit protection
- *Smart battery charger design for optimized battery performance
- *Cold start function



Introduction:

This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.



LCD display



Function keys



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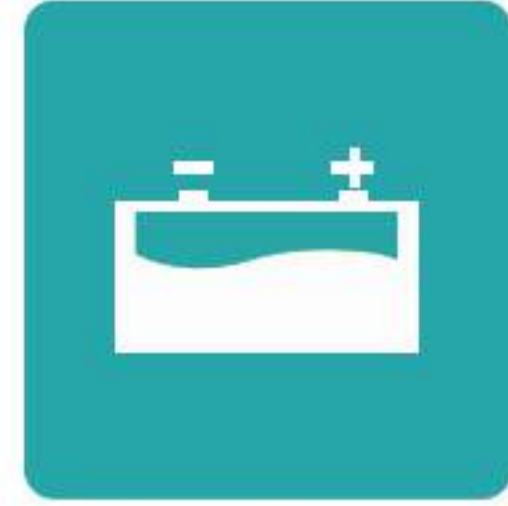
company: Xiamen Sweet Power Tech. Co., Ltd

SPECIFICATION

Product Data Sheet		
MODEL	HY-NB-3.6KW	HY-NB-6.2KW
Maximum PV Input Power	6200W	6500W
Rated Output Power	3600W	6200W
Maximum Solar Charging Current	120A	
GRID-TIE OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90VDC-450VDC	
Number of MPPT Trackers/Maximum Input Current	1/27A	
GRID OUTPUT(AC)		
Nominal Output Voltage	200/230/240VAC	
Output Voltage Range	195.5-253VAC	
Nominal Output Current	15.7A	27.0A
Power Factor	>0.99	
Feed-in Grid Frequency Range	49-51±1Hz	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	97%	
TWO LOAD OUTPUT POWER NO.2		
Full Load	3600W	6200W
Maximum Main Load	3600W	6200W
Maximum Second Load(battery mode)	1200W	2067W
Main Load Cut Off Voltage	22VDC	44VDC
Main Load Return Voltage	24VDC	48VDC
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	30A	40A
Nominal operating frequency	50/60Hz	
Surge power	7200VA	12400VA
PV INPUT(DC)		
Maximum DC Voltage	500VDC	
MPPT Voltage Range	90VDC-450VDC	
Number of MPPT Trackers/Maximum Input Current	1/27A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	24VDC	48VDC
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	94%	
BATTERY & CHARGE		
Nominal DC Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	
Maximum AC Charging Current	100A	
Maximum battery Current	125A	150A
GENERAL		
PHYSICAL		
Net Weight(kgs)	10	11
INTERFACE		
Communication Port	RS232/WIFI/BMS	
Humidity	0-90%	
Operating Temperature	-10 to 50 °C	
Phase	1-phase	

HYBRID ENERGY STORAGE INVERTER

HY-T series



Battery Optional



1kW=1kVA



Touch Screen



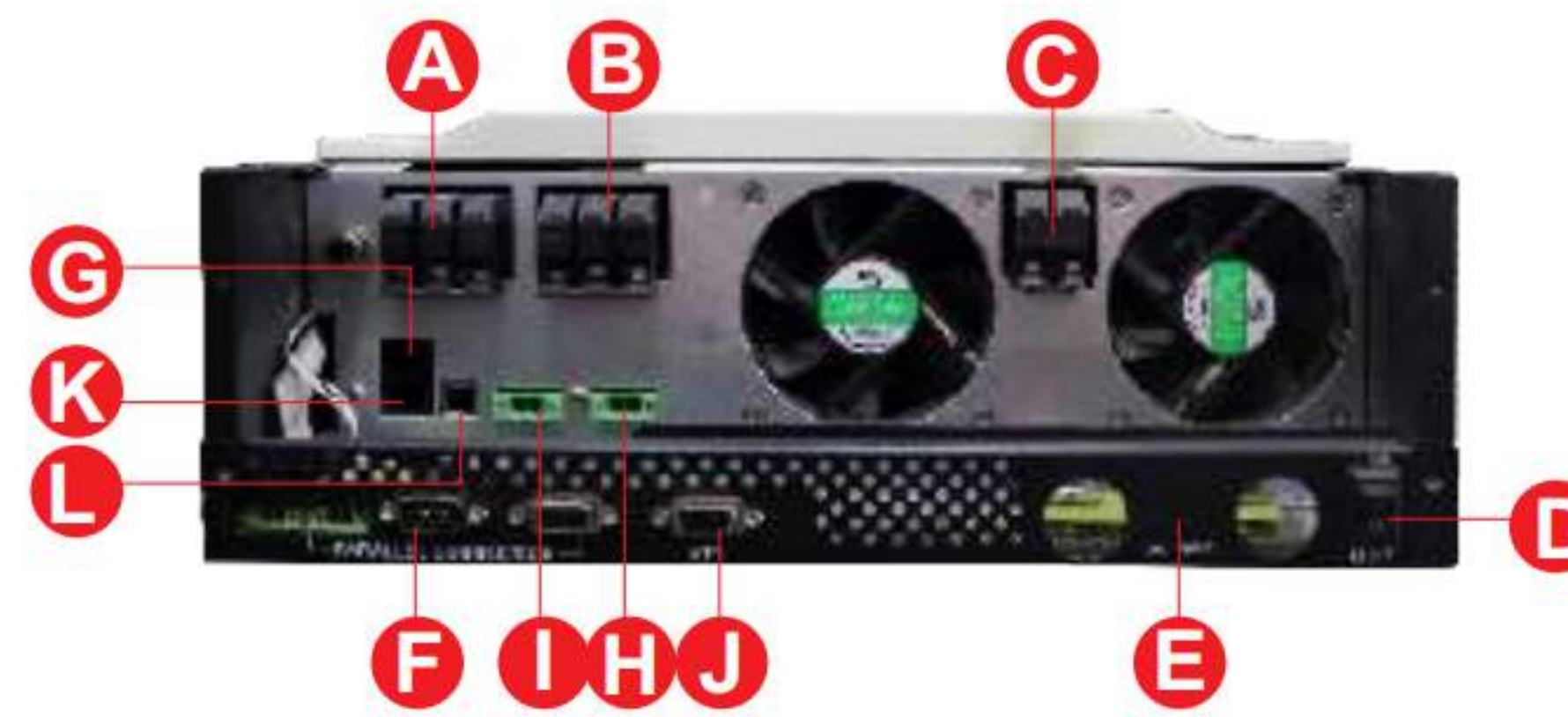
On&Off Grid



Wi-Fi Function

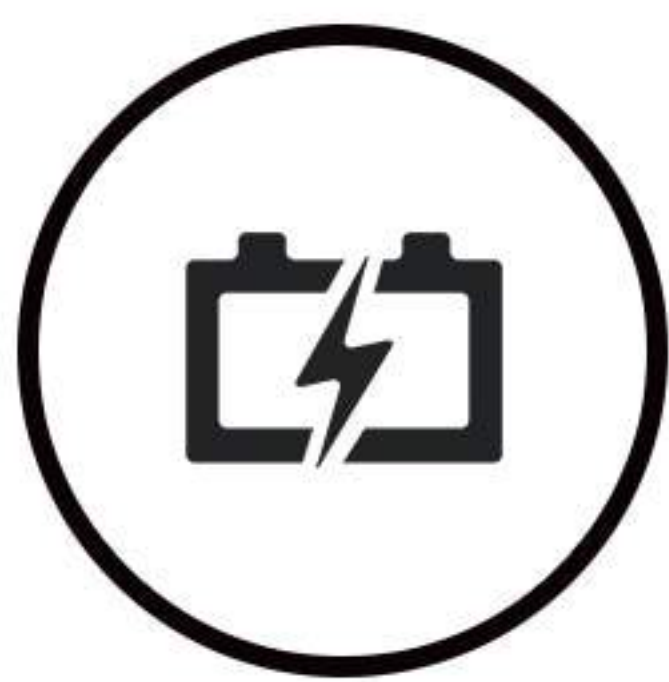


TOUCH DISPLAY SCREEN



- A AC input
- B AC output
- C PV input
- D ON/OFF switch
- E DC input
- F Parallel connection terminal
- G CAN
- H Generator dry contactor
- I CT
- J Wifi
- K RS232
- L USB

INFORMATION

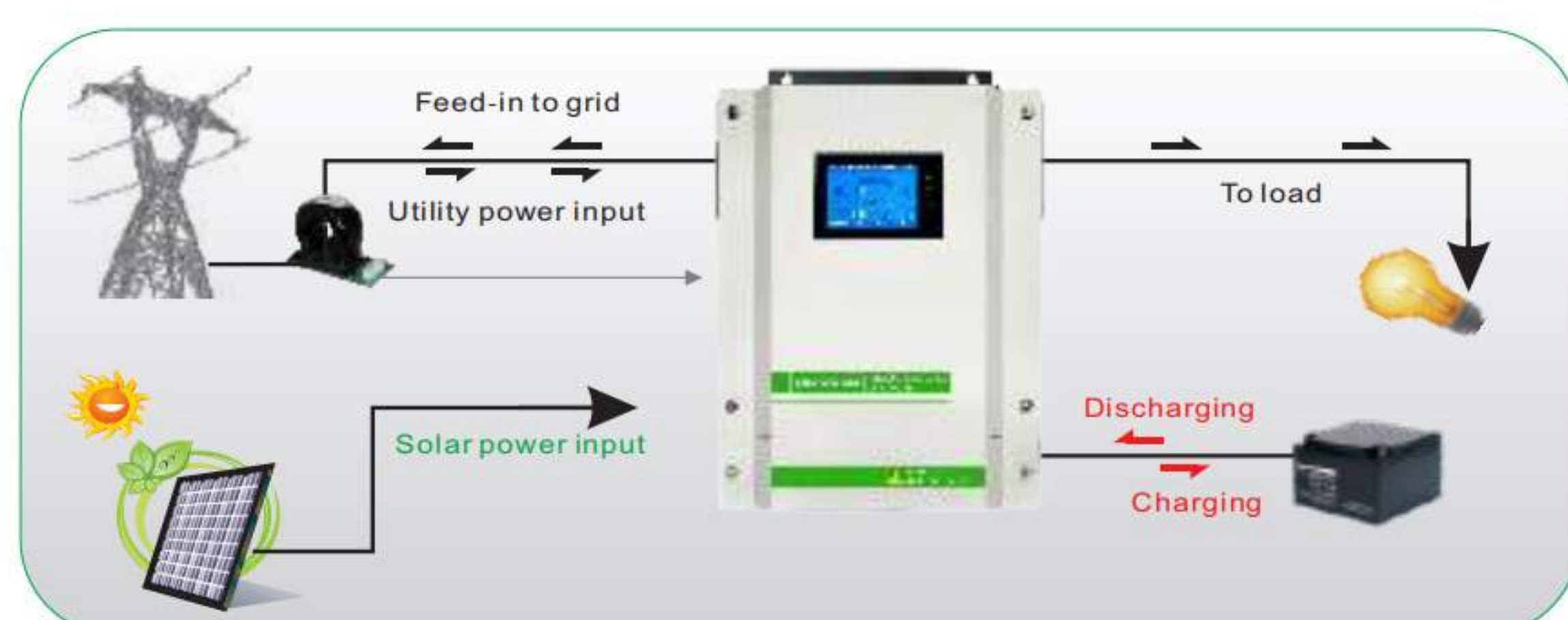


Key Features:

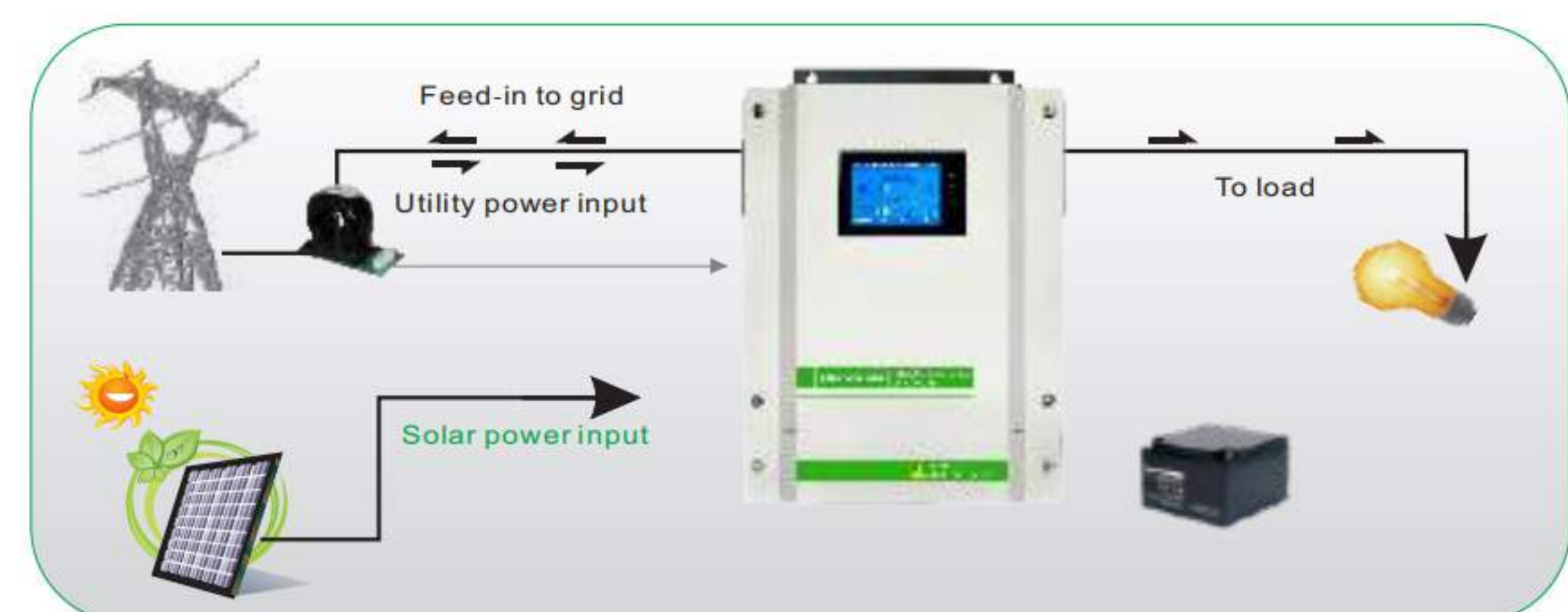
- *Touch screen display.
- *PV and utility power the load at the same time (can be set).
- *Output power factor PF=1.0 .
- *On&Off Grid with energy storage.
- *Energy generated record, load record, history information and fault record.
- *Structure with dust filter.
- *AC charging start and stop time setting.
- *External Wi-Fi device optional.
- *Parallel operation up to 9 units .
- *Connected with battery optional.
- *Wide PV input range 120-450VDC.
- *Independent CPU. MAX PV Array power 5500W.
- *Solar and Utility supply power to the load When
- *solar power is not sufficient to load.
- *The CT sensor will monitor the power consumption of the system and will make sure no excess PV power is delivered to the Grid.

Hybrid Operation

With battery connected



Without battery connected



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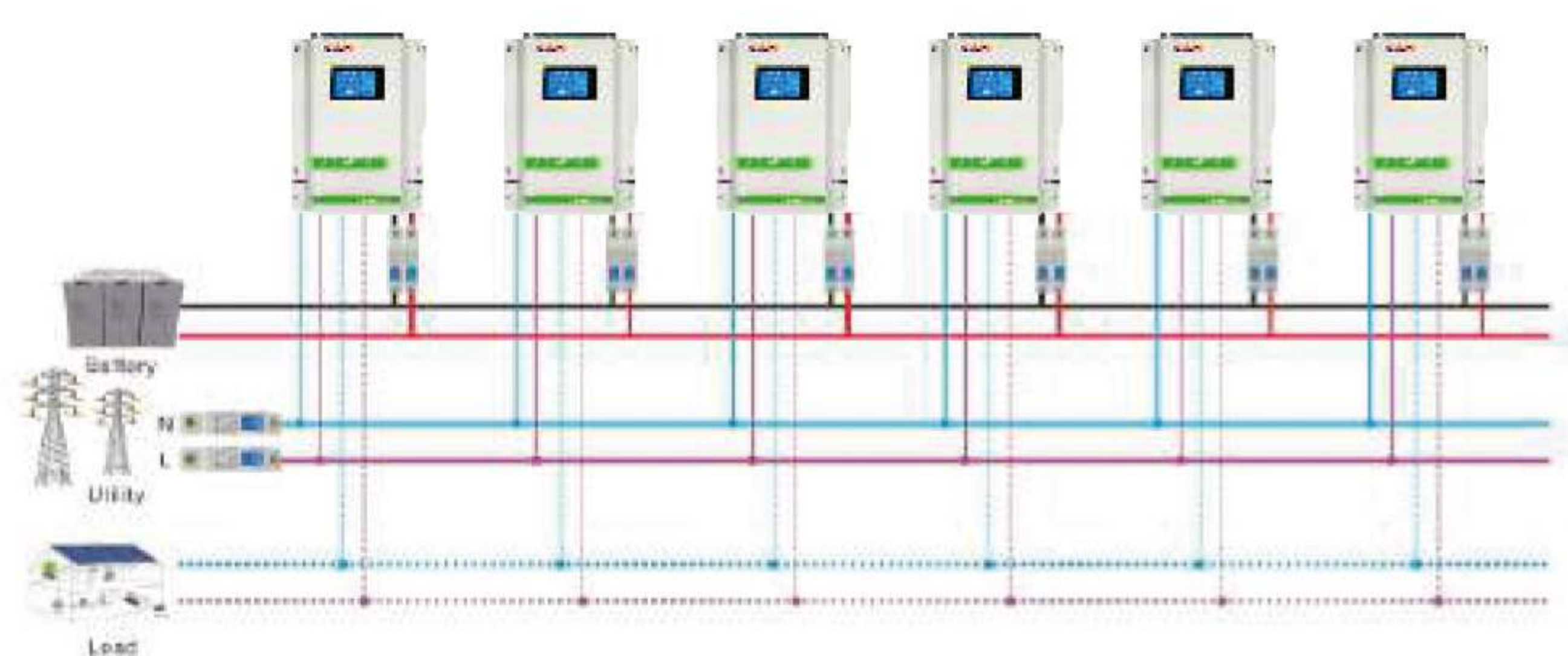
company: Xiamen Sweet Power Tech. Co., Ltd

SPECIFICATION

MODEL	HY-T SERIES 3K-24	HY-T SERIES 3.2K-48	HY-T SERIES 5.5K-48
Max PV Array Power		5500W	
Rated Output Power	3000W	3200W	5500W
MPPT Range @ Operating Voltage	120-450VDC		
GRID-TIE OPERATION			
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	184-265VAC		
Nominal Output Current	13.6A/13.0A/12.5A	14.5A/13.9A/13.3A	20.5A/19.6A/18.8A
Efficiency	up to 93%		
OFF-GRID, HYBRID OPERATION			
GRID INPUT			
Acceptable Input Voltage Range	120-280VAC or 170-280 VAC		
Frequency Range	50Hz/60Hz (Auto sensing)		
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Wave Form	Pure sine wave		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	48VDC	
Maximum AC Charge Current	60A		
Maximum Charge Current(AC+PV)	90A		
Emergency output power			
Maximum output Power	3000W	3200W	5500W
Surge Power	6000W	6400W	11000W
Automatic Transfer Time	<10ms		
GENERAL			
INTERFACE			
Parallel Function	Yes		
Communication	USB or RS232, WIFI, Generator dry-Contact		
ENVIRONMENT			
Humidity	0~90% RH (No Condensing)		
Operating Temperature	0 to 50°C		
Net Weight(KG)	11.75		11.9
Gross Weight(KG)	12.75		13.1
Dimension (W x D x H)mm	345x476x133.2		

ON/OFF HYBRID SOLAR INVERTER

■ Single phase output up to 49.5KW using 9 units



■ Three phase output using either 3 units(16.5KW)or max 9 units(49.5KW)

