

HY Series

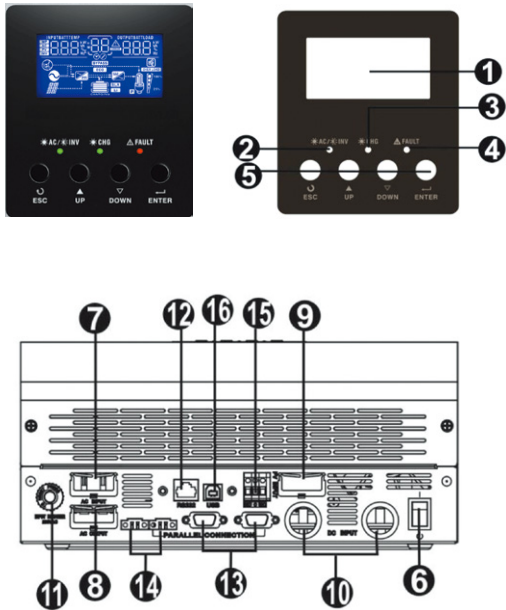


Equipped with PWM solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing ,integrated interface system. It's light and handy ,making installation easier. It's the ideal inverters for small PV plants ,or individually for small houses both indoors and outdoors

Features:

- 1. Pure sine wave inverter
- 2. Built-in PWM solar charge controller
- 3. Selectable input voltage range for home appliances and personal computers
- 4. Selectable charging current based on applications
- 5. Configurable AC/Solar input priority via LCD setting
- 6. Compatible to mains voltage or generator power
- 7. Auto restart while AC is recovering
- 8. Overload and short circuit protection
- 9. Smart battery charger design for optimized battery performance
- 10. Cold start function

LCD Display Information



1. LCD Display

2. Status indicator

3. Charging indicator

4. Fault indicator

5. Function buttons

6. Power on/off switch

7. AC input

8. AC output

9. PV input
10. Battery input

11. Circuit breaker

12. RS232 communication port

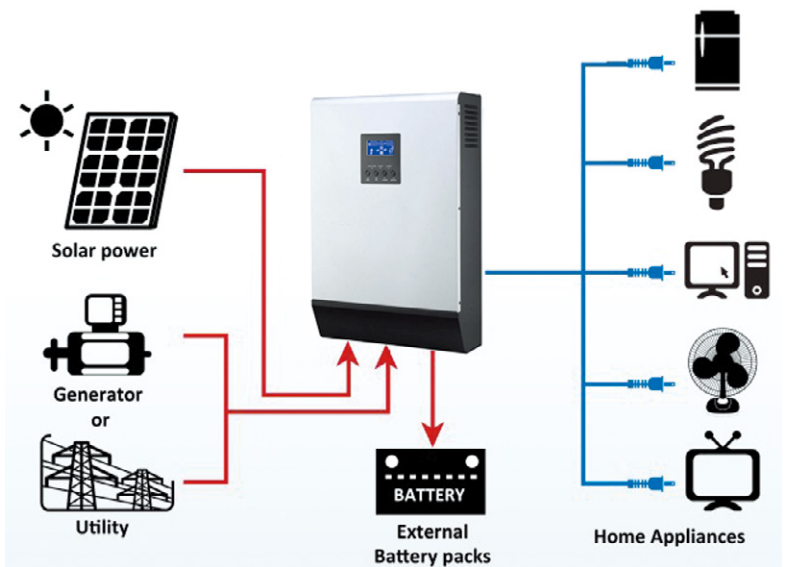
13. Parallel communication cable(only for parallel model)

14. Current sharing cable(only for parallel model)

15. Dry contact

16. USB communication port

Solar System Connection



Back Panel



Technical Specifications:

Model No.		HY1012P	HY3022P
Rated power		1000VA /800W	3000VA /2400W
Input	voltage	230VAC	
	selectable voltage range	170~280VAC (for personal computers) 90~280VAC (for home appliances)	
	Frequency range	50Hz/60Hz (auto sensing)	
Output	AC voltage regulation (Batt.mode)	230VAC ± 5%	
	Surge power (5 seconds)	2000VA	6000VA
	efficiency (peak)	90%~93%	93%
	transfer time	10ms(for personal computers); 20ms (for home appliances)	
	waveform	pure sine wave	
Battery& AC charger	battery voltage	12VDC	24VDC
	floating charge voltage	13.5VDC	27VDC
	overcharge protection	15VDC	31VDC
	maximum charge current	20A	
	MAX PV array power	900W	1500W
	maximum PV array open circuit voltage	50VDC	60VDC
	PWM charging current	50A	
	maximum efficiency	98%	
	standby power consupsion	2W	
Physical	Dimension, D*W*H(mm)	95*240*316	100*272*385
	Net weight (kgs)	5KG	7KG
operating Environment	humidity	5%~95% relative humidity (non-condensing)	
	operating temperature	0℃ ~55℃	
	storage temperature	-15℃ ~60℃	

Approximate Back-Up Time Table:

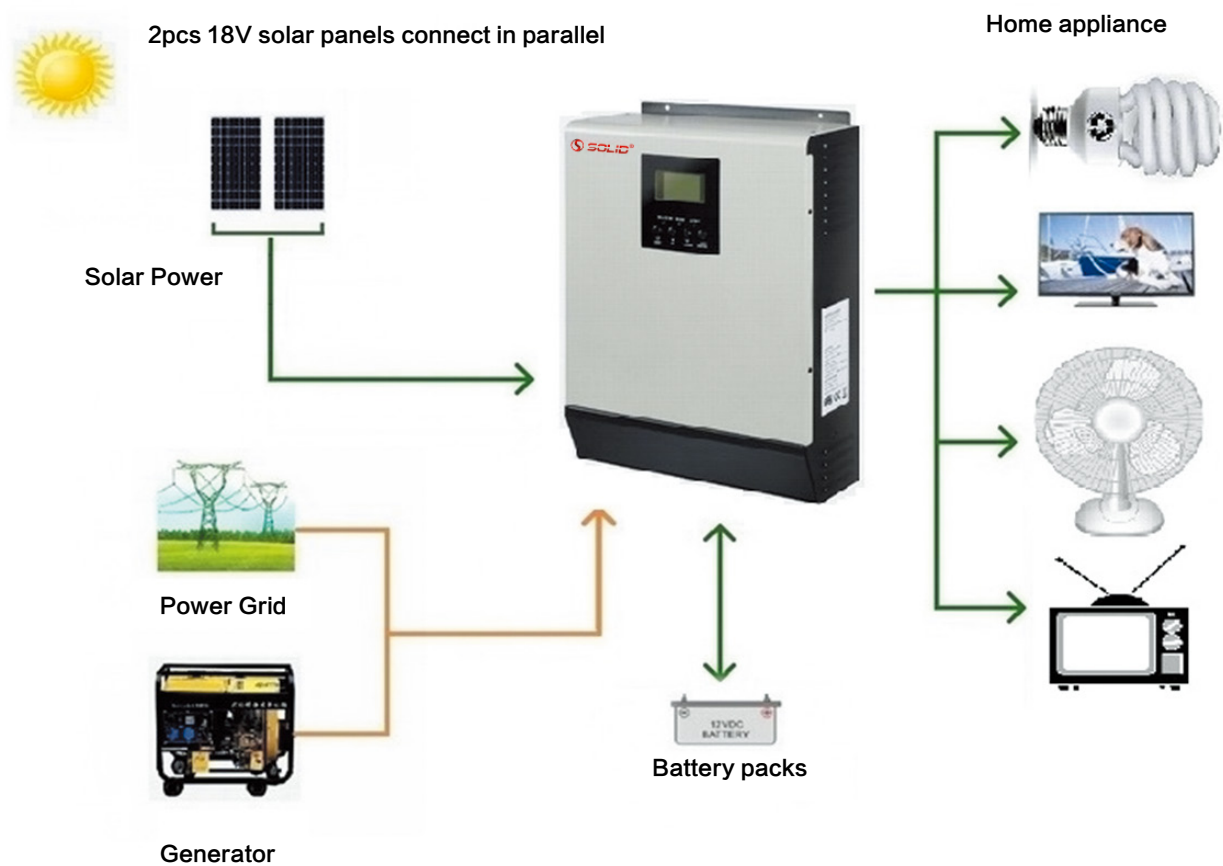
Model	Load (VA)	Backup Time @12Vdc 100Ah(min)	Backup Time @12Vdc 200Ah(min)
1KVA	200	766	1610
	600	198	503
	1000	112	269

Model	Load (VA)	Backup Time @24Vdc 100Ah(min)	Backup Time @24Vdc 200Ah(min)
3KVA	300	449	1100
	1500	68	164
	3000	28	67

Note: Product specifications are subject to change without further notice.

1KVA Off Grid Solar Power System

Items	Description	Quantity	Price
Solar panel	180W 18V Mono Solar Panel	2pcs	
Inverter with PWM 50A Solar controller	HY1012P 1KVA 12V hybrid solar inverter	1pc	
Battery	Deep Cycle battery 12V 100Ah	1pc	



3KVA Off Grid Solar Power System

Items	Description	Quantity	Price
Solar panel	300W 31V Mono Solar Panel	5pcs	
PV array box	6 strings input PV array combiner box	1pc	
Inverter with PWM 50A Solar controller	HY3022P 3KVA 24V hybrid solar inverter	1pc	
Battery	Deep Cycle battery 12V 200Ah	2pcs	
Solar mounting brackets	Aluminium brackets can mount 5pcs solar panels	1sets	
Solar cable & connectors	100m 4mm2 solar cable & 5sets MC4 connectors	100m+5sets	

