



SYSH1800 Plus Series On/Off Grid Hybrid Solar Inverter

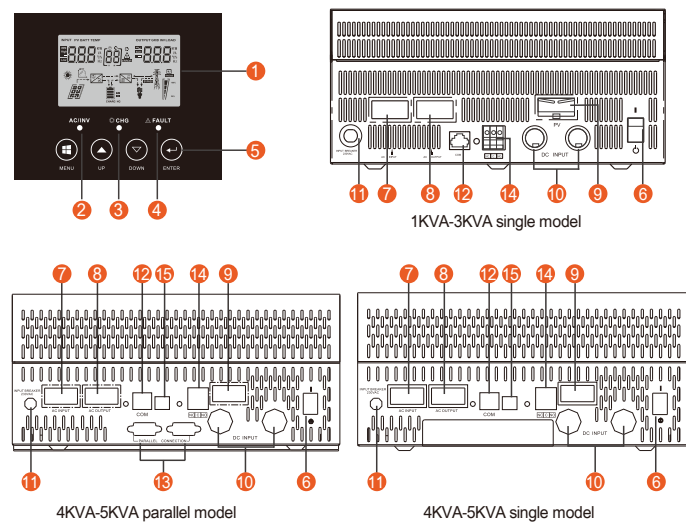
Feature:

- Rated power 2kva to 5kva
- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 60A/80A solar charge controller
- New SUB working mode(Solar-Utility-Battery working mode) for 4K-5K series
- MPPT Efficiency max 98%
- Combining solar system, AC utility, and battery power source to supply continuous power
- Multiple operations: basic Grid-tie, Off-Grid, Grid-Interactive
- Parallel operation with up to 3 units (Available for 4KVA/5KVA only)
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485 monitoring function with free CD
- WIFI/ GPRS remote monitoring (optional)
- Compatible with generator

Introduction:

This is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer a small size uninterruptible power supply. 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.

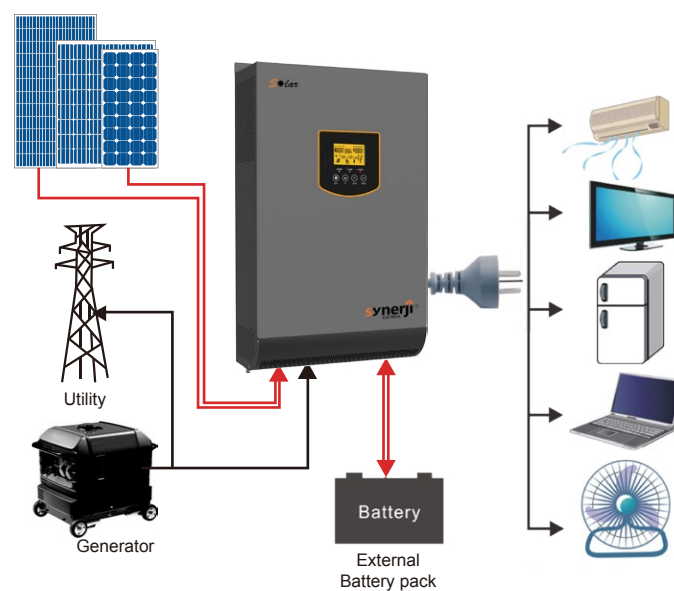
LCD Display Information



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. RS485 communication port
13. Parallel communication cable (only for parallel model)
14. Dry contact
15. USB

NOTE: For parallel model installation and operation, please check separate parallel installation guide for the details.

Solar System Connection



Back Panel



Specification

MODEL	SYSH18-2K Plus	SYSH18-3K Plus	SYSH18-4K Plus	SYSH18-5K Plus
Default Battery System Voltage	24VDC		48VDC	
INVERTER OUTPUT	Rated Power	2000VA/ 1600W	3000VA/ 2400W	4000VA/ 3200W
	Surge Power	4000VA	6000VA	8000VA
	Waveform	Pure sine wave		
	AC Voltage Regulation (Batt.Mode)	230VAC±5%		
	Electric current	7.0A	10.5A	13.0A
	Output frequency precision	50Hz±0.1%		
	THD (Linear loads)	Off grid≤2%		
		Grid discharge ≤3%		
		Grid charge ≤3%		
	Inverter Efficiency (Peak)	90%	93%	
Transfer Time	10ms(FST- APL); 20ms(SLO)			
AC INPUT	Voltage	230VAC		
	Selectable Voltage Range	170~280VAC(FST); 90~280VAC(SLO);184-253VAC(APL)		
	Frequency Range	50Hz/60Hz (Auto sensing)		
BATTERY	Nominal voltage	24VDC	48VDC	
	Floating Charge Voltage	27VDC	54VDC	
	Overcharge Protection	31VDC	60VDC	
SOLAR CHARGER & AC CHARGER	Maximum PV Array Open Circuit Voltage	145VDC		
	PV Array MPPT Voltage Range	30~130VDC	64~130VDC	
	Standby Power Consumption	2W		
	Rated Power	1500W	3000W	
	Maximum Solar Charge Current	60A		
	Maximum Efficiency	98%		
	Maximum AC Charge Current	20A or 30A	60A	
Maximum Charge Current	60A	120A		
MECHANICAL SPECIFICATIONS	Dimension,W*H*D(mm)	272*372*131		295*528*141
	Net Weight(kg)	7.6	8.0	12.5
OTHER	Humidity	5% to 95% Relativ Humidity (Non-condensing)		
	Operating Temperature	0°C-55°C		
	Storage Temperature	-15°C-60°C		

* Product specifications are subject to change without further notice.

Approximate Back-up Time Table

Model	Load (VA)	Backup Time@24V 100Ah(min)	Backup Time@24V 200Ah(min)	Model	Load (VA)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)
2KVA	200	766	1610	2KVA	200	1581	3161
	1000	112	269		1000	268	615
	2000	50	112		2000	106	257
3KVA	300	449	1100	3KVA	300	1054	2107
	1500	68	164		1500	63	155
	3000	28	67		3000	63	155
4KVA	400	766	1610	4KVA	400	766	1610
	2000	112	269		2000	112	269
	4000	50	112		4000	50	112
5KVA	500	613	1288	5KVA	500	613	1288
	2500	90	215		2500	90	215
	5000	40	90		5000	40	90