

5KVA HIGH FREQUENCY OFF GRID SOLAR INVERTER



FEATURES

The SYSV18-5K-VPK is a multi-function inverter/charger, combining the functions of inverter, AC utility, PWM solar charger and battery charger, to offer uninterruptible power support. It's comprehensive LCD display offers user-configurable easy-accessible button operation, such as "battery charging current", "AC/Solar charger priority" and "acceptable input voltage" based on different applications.

SPECIFICATIONS

- Pure sine wave output
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc.)
- Built-in PWM 60A solar charge controller
- Overload, short circuit and Deep discharge protection
- Cold start function
- WIFI remote monitoring (optional)
- Support USB, RS458 monitoring function with free CD
- New Sub working mode (Solar-Utility-Battery)
- Parallel operation with up to 3 units
- Compatible with generator
- IP20 Rating

MODEL SYSV18-5K-VPK

INVERTER OUTPUT	
Rated Power	5000W
Surge Power	10 000W
AC Voltage Regulation (Batt. Mode)	220VAC-240VAC \pm 5%
Inverter Efficiency (Peak)	93%
Transfer Time	10ms (For Pc) 20ms (For Home Appliances)
AC INPUT	
Voltage	230VAC
Frequency	50Hz/60Hz (Auto Sensing)
BATTERY	
Normal Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	60VDC

Output Protection
requires 16Amp Circuit Breaker
(Always connect batteries first, then Solar Panels)

SOLAR CHARGER + AC CHARGER	
Max PV Array Open Circuit Voltage	105 VDC
Standby Power Consumption	2W
(PWM) Max. Solar Charge Current	60A
Max. AC Charge Current	60A
Max. Charge Current	120A

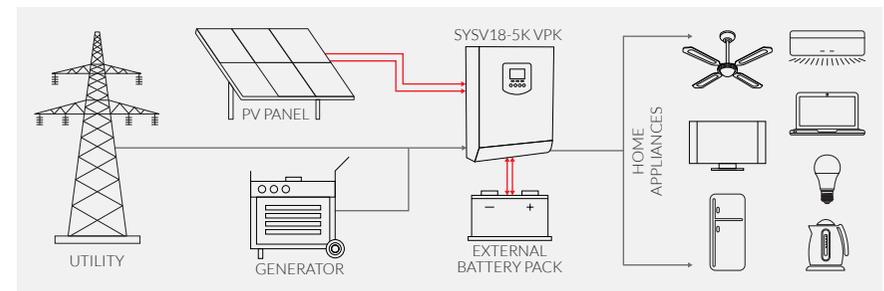
MECHANICAL SPECIFICATIONS	
Dimensions (W*H*D)	297.5*468*125mm
Packaging Dimensions (W*H*D)	618*415*261mm
Net Weight (kg)	12
Gross Weight (kg)	13.5

OTHER	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	0°C -55°C
Storage Temperature	-15°C -60°C

APPROXIMATE BACK-UP TIME TABLE

MODEL	LOAD (VA)	BACK-UP TIME@48V 100Ah(min)	BACK-UP TIME@48V 200Ah(min)
5KVA	500	613	1288
	2500	90	215
	5000	40	90

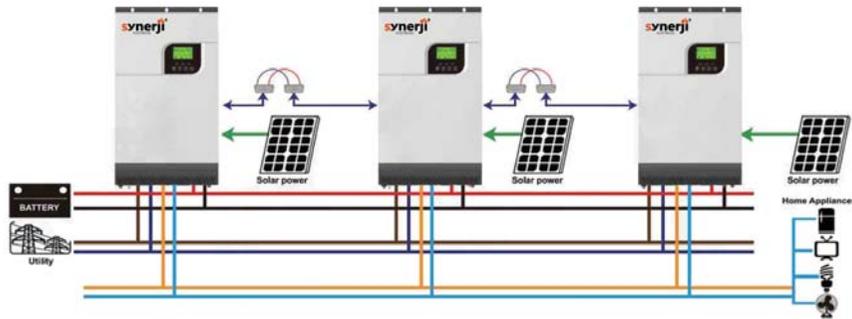
* 10ms (For Pc) 20ms (For Home Appliances)



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ABILITY FOR PARALLEL OPERATION

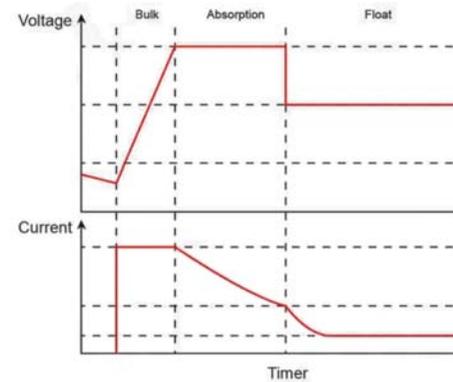
The inverter is able to run in parallel operation mode to increase the capacity and reliability of the solar system. For higher reliability, parallel kits are adopted for inverters to communicate with each other. Up to 3 inverters can be installed together. Either single-phase or three phases parallel operation is available.



CHARGING ALGORITHM

3-Step (Flooded Battery, AGM/Gel/Lithium Battery), 4-Step(Li)

Charging algorithm for lead acid battery



Charging algorithm for Lithium battery

