



## Backup batteries & Hybrid solar inverter system

### Features:

- Hybrid Solar Inverter is compatible with Lithium Polymer batteries.
- Can stack more than one inverter (maximum 9 elements – battery + inverter).
- This hybrid inverter is designed to generate continuous power from PV solar modules (solar panels), battery, and the utility.
- This inverter is able to generate power to feed the grid (utility) and charge battery.
- The backup batteries are designed to store continuous energy generated from photovoltaic solar modules (solar panels), inverters and utilities, depending on the time requirement.
- They include an on-off button and a touch-screen display that indicates operating status and battery information.



### Hybrid Solar Inverter 5KW

MODEL	5KW
RATED OUPUT POWER	5000W

PV INPUT (DC)			
Max. PV Power			5000W
Max. PV Array Open Circuit Voltage			450 VDC
MPPT Range @ Operating Voltage			120 VDC~430 VDC
Number of MPP Tracker			1



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<b>GRID-TIE OPERATION</b>	
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	220/230/240 VAC
Feed-in Grid Voltage Range	195.5~253 VAC @India regulation 184 ~ 264.5 VAC @Germany regulation 184 ~ 264.5 VAC @South America regulation
Feed-in Grid Frequency Range	49~51Hz @India regulation 47.5~51.5Hz @Germany regulation 57~62Hz @South America
Nominal Output Current	21.7A
Power Factor Range	>0.99
Maximum Conversion Efficiency (DC/AC)	95%

<b>OFF-GRID, HYBRID OPERATION</b>	
<b>GRID INPUT</b>	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Rating of AC Transfer Relay	40A

<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure Sine Wave
Efficiency (DC to AC)	93%

<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48 VDC
Maximum Charging Current (from Grid)	80A
Maximum Charging Current (from PV)	80A
Maximum Charging Current	80A



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### GENERAL

Dimension, D X W X H (mm)	522 x 350 x 173
Net Weight (kgs)	15

### INTERFACE

Parallel-able	Yes
External Safety Box (Optional)	Yes
Communication	USB or RS232/Dry-Contact

### ENVIRONMENT

Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C

## Backup Batteries

MODEL	PW-ZK2.5KWH
Rated battery voltage (Vdc)	51.2V
Rated capacity (Ah)	50AH (2560WH)
Maximum Charging current (A)	100A
Maximum Discharge current (A)	150A
Battery type	LiFePo4
Operation Temperature (°C)	Charging: 0°C~55°C
	Discharge: -20°C~60°C
Storage temperature (°C)	-30°C~70°C
Humidity	30%~95% no frost
Dimensions	D510 * W350 * H150mm
Net Weight (KG)	26.7KG