

5000VA / 5000W

OFF-GRID SOLAR INVERTER

Energy
Independence

Continuous
Power Supply

Flexible
Installation

FEATURES

- Wide range of accepted input voltages.
- Smart design and unique lithium battery wake-up function.
- Support WFI/GPRS remote monitoring, setting and upgrade.
- Built-in MPPT controller, PV array input voltage can be up to 500v.
- Flexible working modes with settable AC/Solar Input priority and output priority.
- Advanced battery management; supports lithium batteries and lead-acid batteries.
- Support mirco grid system with seperate generator input terminal, and can remote control generator.

Model	GYSM-5KW	GYSM-B-5K	GYSM-BT-5K
Rate Power	5000W/5000VA	5000W/5000VA	5000W/5000VA
Surge Power	Bypass 9200VA	Bypass 9200VA	Bypass 9200VA
Parallel Function	Yes	Yes	Yes
BMS	NO	Yes	Yes
Touch Screen	NO	NO	Yes
Input			
Main Topology	L+N+PE		
Nominal Voltage	230Vac, 50/60Hz±0.1%		
Power Factor	1		
Input Voltage Range	90~280Vac±3V(Normal mode) / 170~280Vac±3V(UPS mode)		
Frequency Range	40~70Hz±0.1% (Auto Sensing)		
Output			
Output Voltage	208Vac / 220Vac / 230Vac / 240Vac±5%, 50/60Hz±0.1%		
Transfer Time	10ms (For Personal Computers), 10ms (For Home Appliances)		
Overlord Capacity (Battery Mode)	1min@102%~110%Load; 10s@110%~130%Load; 3s@130%~150%Load; 0.2s@>150% Load		
Peak Efficiency (Battery Mode)	94%		
Standby Power	< 60W		
Waveform	Pure sine wave		
Battery			
Battery Voltage	48VDC		
Start Voltage	46VDC		
Constant Charging Voltage (adjustable)	56.4VDC		
Overcharge Voltage	60.4VDC		
Float Charging Voltage (adjustable)	54VDC		
Charge			
Charging method	MPPT		
Maximum input current	18A		
Max. PV Array Power	6000W		
PV Array Voltage Range	120V-500VDC		
Charging current	2-80A (adjustable)		
Max Charging Current (AC charger)	80A		
Max Charging Current (solar charger)	80A		
Tracking efficiency	99.5% max		
MPPT Range	120~430VDC		
Display			
LCD	Operating mode/load/input/output, etc		
Interface			
RS232	5PIN / Pitch2.0mm, Baud 2400		
Expansion Slots	2X5 PIN / Pitch2.54mm ; SNMP card、USB、Dry junction card、Lithium battery BMS communication card、WIFI (5KW)		
Parallel interface (optional)	DB9,Parallel card		
Environment			
Temperature and humidity	-10℃~50℃ (Derating when ambient temperature>40 ℃) ; 20%-95% (No condensation)		
Noise	≤50dB		
Storage temperature	-15~60℃		
Altitude	The altitude should not exceed 1000m, with a reduction of 1000m or more and a maximum of 4000m. Refer to IEC62040		
Physical			
Dimension D*W*H (mm)	595*390*215		
Net weight (KG)	8.5		
Gross weight (KG)	9.7		

Product specifications are subject to change without further notice.