



Benefit from the **ENERGY** of the **SUN**...

**Model Number: SHIGP-01000(12)**

**1000W Hybrid Solar Inverter With Controller**



**Main Features:**

1. The system can provide electricity produced by solar energy to loads directly.
2. Integrated with inverter and solar controller inside, adopts 1 CPU control.
3. Continuous, standard and stable pure sine wave with LCD display.
4. UPS Auto-switched, self recovery and unattended operation functions.
5. PV Priority mode or AC priority mode is identified and switch automatically.
6. The system is build in stabilizer with AVR function.

Parameters	Description	Specifications	
<b>Inverter</b>	DC Input Voltage (V)	12Vdc	
	AC Output Volatge (V)	110V±10% / 220V±10% / 230V±10%	
	Rated Output Voltage (V)	1000W	
	Frequency (hz)	50HZ±0.5 / 60HZ±0.5	
	Output Wave	Pure Sine Wave	
	Peak Power	3 Times of the rated power for 1s	
	Transfer Efficiency	>85%	
	No Load loss (W)	≤ 10 W	
	Over load Protection		120% of rated power, restart after 30s
			150% of rated power, shutdown after 10s
			200% of rated power, shurdown after 1s
	Operating Temperature (°C)	- 20°C to +50°C	
	Storage Temperature (°C)	- 25°C to 70°C	
	Product Size (mm)	355mm x 175mm x 210mm	
	Shell Material	Cast Iron	
	Product N.W. (kgs)	12 kgs	
	Packing Material	Wooden Case	
	Packing Size (mm)	405mm x 230mm x 285mm	
Qty / Ctn (pcs)	1 pc		
Gross Weight (kgs)	14.38 kgs		
Display	LCD + LED		
Display Content	PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load, Running Status		
Complete Protection	DC & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature		
<b>Solar Controller</b>	Solar Controller Input (V)	30Vdc - 50Vdc	
	Recommended Input Voltage (V)	18Vdc	
	Recommended Input Power Range (W)	400W - 1000W	
	Charging Current (A)	30A	
	Charging Efficiency	>96%	
	Maximum Discharge Current (A)	30A	
	Charge Type	PWM / MPPT	
<b>AC Charging</b>	Maximum Input Power	1000W	
	Charging Current (A)	15A	
	Charging Time	8 hours ≥ 90% (80A maintenance free Lead-Acid Battery)	
	AC Output Volatge (V)	110Vac / 220Vac / 230Vac	
<b>Battery</b>	AC Input Frequency (Hz)	50Hz / 60Hz	
	Battery Type	Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery	
	Battery Input Voltage (V)	12V	
	Battery Capacity (AH)	100AH	
<b>Solar Panel</b>	Quanty for Standard Configuration	2 pcs, 12V / 100AH (connected in parallel)	
	Power Output (W)	50W	
	Voltage at Pmax (V)	18V	
	Current at Pmax (A)	2.8A	
	Open-Circuit Voltage (V)	21.6A	
	Short-Circuit Voltage (V)	3.04A	
Quanty for Standard Configuration	8 pcs (connected in parallel)		

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