



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

**Model Number: SHIGP-0400**

### **400W 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)	24Vdc	
	AC Output Volatge (V)	110V±10% / 220V±10% / 230V±10%	
	Rated Output Voltage (V)	400W	
	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)	8 kgs	
	Packing Material	Wooden Case	
Packing Size (mm)	405mm x 230mm x 285mm		
Qty / Ctn (pcs)	1 pc		
Gross Weight (kgs)	10.5 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)	36Vdc	
	Recommended Input Power Range (W)	100W - 400W	
	Charging Current (A)	20A	
	Charging Efficiency	>96%	
	Maximum Discharge Current (A)	20A	
	Charge Type	PWM / MPPT	
Maximum Input Power	400W		
<b>AC Charging</b>	Charging Current (A)	20A	
	Charging Time	8 hours ≥ 90% (80A maintenance free Lead-Acid Battery)	
	AC Output Volatge (V)	110Vac / 220Vac / 230Vac	
	AC Input Frequency (Hz)	50Hz / 60Hz	
<b>Battery</b>	Battery Type	Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery	
	Battery Input Voltage (V)	24V	
	Battery Capacity (AH)	33AH	
	Quanty for Standard Configuration	2 pcs, 12V / 33AH (connected in parallel)	
<b>Solar Panel</b>	Power Output (W)	150W	
	Voltage at Pmax (V)	35V	
	Current at Pmax (A)	4.29A	
	Open-Circuit Voltage (V)	43.75V	
	Short-Circuit Voltage (V)	4.7A	
Quanty for Standard Configuration	1 pc		

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