

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

Model Number: SHIGP-06000

## **6000W 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.

Dic Input Voltage (V)   100V+10% / 220V+10% / 230V+10%	Parameters	Description	Specifications
Rated Output Voltage (V)	Inverter	DC Input Voltage (V)	96Vdc
Frequency (ht)		AC Output Volatge (V)	110V±10% / 220V±10% / 230V±10%
Output Wave		Rated Output Voltage (V)	6000W
Peak Power		Frequency (hz)	50HZ±0.5 / 60HZ±0.5
Transfer Efficiency		Output Wave	Pure Sine Wave
No Load loss (W)		Peak Power	3 Times of the rated power for 1s
Inverter  Over load Protection  120% of rated power, shutdown after 10s  200% of rated power, shutdown after 10s  200% of rated power, shutdown after 1s  200% of rate 1s  200% of rated power, shutdown after 1s  200% of cast power, salt power, shutdown after 1s  200% of cast power, salt power, shutdown after 1s  200% of cast power, salt power, salt power, shutdown after 1s  2		·	
Inverter   Operating Temperature ("C)   20"C to 150"C   720"C to 150"C to 150"C   720"C to 150"C to 1		No Load loss (W)	-
Inverter    Departing Temperature ("C)   - 20" Ct 0 +50" C			
Operating Temperature (*C)			<u>'</u>
Storage Temperature (*C)   -25°C to 70°C			·
Product Size (mm)   550mm x 260mm x 480mm			
Shell Material			
Product N.W. (kgs)   55 kgs     Packing Material   Wooden Case     Packing Size (mm)   630mm x 345mm x 700mm     Oty / Ctn (pcs)   1 pc     Gross Weight (kgs)   66 kgs     Display   LCD + LED     Display Content   P7 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     Solar Controller Input (V)   120Vdc - 200Vdc     Recommended Input Power Range (W)   144Vdc     Recommended Input Power Range (W)   1600W - 6000W     Charging Current (A)   60A     Charging Tipe   PWM / MPPT     Maximum Input Power   6000W     Charging Time   Shours > 90% (80A maintenance free Lead-Acid Battery)     AC Charging Time   Shours > 90% (80A maintenance free Lead-Acid Battery)     AC Charging Time   Maintenance free Lead-Acid Battery     AC Input Frequency (Hz)   50Hz / 60Hz     Battery Type   Maintenance free Lead-Acid Battery, Li-ion, GEL Battery     Battery Type   Maintenance free Lead-Acid Battery, Li-ion, GEL Battery     Battery Type   Maintenance free Lead-Acid Battery, Li-ion, GEL Battery     Battery Type   Maintenance free Lead-Acid Battery, Li-ion, GEL Battery     Battery Capacity (AH)   100AH     Quanty for Standard Configuration   8 pcs, 12V / 100AH (connected in series)     Power Output (W)   200W     Voltage at Pmax (V)   35.8V     Current at Pmax (A)   5.59A     Open-Circuit Voltage (V)   44.75A     Short-Circuit Voltage (V)   6.09A		Product Size (mm)	550mm x 260mm x 480mm
Packing Material   Wooden Case			
Packing Size (mm)   630mm x 345mm x 700mm     Qty / Ctn (pcs)   1 pc     Gross Welight (kgs)   66 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     Solar Controller Input (V)   120vdc - 200vdc     Recommended Input Voltage (V)   120vdc - 200vdc     Recommended Input Power Range (W)   1600W - 6000W     Charging Current (A)   60A     Charging Efficiency   >96%     Maximum Discharge Current (A)   60A     Charging Type   PWM / MPPT     Maximum Input Power   6000W     Charging Time   8 hours > 90% (80A maintenance free Lead-Acid Battery)     AC Output Voltage (V)   110Vac / 220Vac / 230Vac     AC Input Frequency (Hz)   50Hz / 60Hz     Battery Type   Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery     Battery Input Voltage (V)   96V     Battery Lopacity (AH)   100AH     Quanty for Standard Configuration   8 pcs, 12V / 100AH (connected in series)     Power Output (VI)   200W     Voltage at Pmax (V)   35.8V     Current at Pmax (A)   5.59A     Open-Circuit Voltage (V)   44.75A     Sont-Circuit Voltage (V)   6.09A     Sont-Circuit Voltage (V)   6.09A     Control Voltage (V)   4.475A     Sont-Circuit Voltage (V)   6.09A     Control Voltage (		Product N.W. (kgs)	55 kgs
Qty / Ctn (pcs)   1 pc		Packing Material	Wooden Case
Gross Weight (kgs)   66 kgs     Display		Packing Size (mm)	630mm x 345mm x 700mm
Display Content   PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load, Running Status   PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load, Running Status   DC & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature   120 Vdc - 200 Vdc   120 Vdc - 200 Vdc   Recommended Input Voltage (V)   144 Vdc   Recommended Input Power Range (W)   1600W - 6000W   Charging Current (A)   60 A   Charging Efficiency   >96%   Maximum Discharge Current (A)   60 A   Charging Efficiency   PWM / MPPT   Maximum Input Power   6000W   Maximum Input Power   6000W   Maximum Input Power   6000W   AC Output Volatge (V)   150 A		Qty / Ctn (pcs)	1 pc
Display Content   PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load, Running Status		Gross Weight (kgs)	66 kgs
Complete Protection   DC & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature		Display	LCD + LED
Solar Controller  Solar Controller  Recommended Input Voltage (V) 144Vdc Recommended Input Power Range (W) 1600W - 6000W Charging Current (A) 60A Charging Efficiency >96% Maximum Discharge Current (A) 60A Charge Type PWM / MPPT Maximum Input Power 6000W Charging Current (A) 15A Charging Time 8 hours > 90% (80A maintenance free Lead-Acid Battery) AC Output Volatge (V) 110Vac / 220Vac / 230Vac AC Input Frequency (Hz) 50Hz / 60Hz Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery Battery Input Voltage (V) 96V Battery Capacity (AH) 100AH Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W Voltage at Pmax (V) 35.8V Current at Pmax (A) 5.59A Open-Circuit Voltage (V) 6.09A		Display Content	PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load, Running Status
Solar Controller  Recommended Input Voltage (V) 144Vdc  Recommended Input Power Range (W) 1600W - 6000W  Charging Current (A) 60A  Charging Efficiency >96%  Maximum Discharge Current (A) 60A  Charge Type PWM / MPPT  Maximum Input Power 6000W  Charging Current (A) 15A  Charging Time 8 hours > 90% (80A maintenance free Lead-Acid Battery)  AC Output Volatge (V) 110Vac / 220Vac / 230Vac  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 96V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A  Short-Circuit Voltage (V) 6.09A		Complete Protection	DC & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature
Solar Controller  Recommended Input Power Range (W) 1600W - 6000W  Charging Current (A) 60A  Charging Efficiency 96%  Maximum Discharge Current (A) 60A  Charge Type PWM / MPPT  Maximum Input Power 6000W  Charging Current (A) 15A  Charging Current (A) 15A  Charging Time 8 hours > 90% (80A maintenance free Lead-Acid Battery)  AC Output Volatge (V) 110Vac / 220Vac / 230Vac  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 96V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A  Short-Circuit Voltage (V) 6.09A	Solar Controller	Solar Controller Input (V)	120Vdc - 200Vdc
Charging Current (A)   60A		Recommended Input Voltage (V)	144Vdc
Charging Efficiency >96% Maximum Discharge Current (A) 60A Charge Type PWM / MPPT Maximum Input Power 6000W  Charging Current (A) 15A Charging Time 8 hours > 90% (80A maintenance free Lead-Acid Battery) AC Output Volatge (V) 110Vac / 220Vac / 230Vac AC Input Frequency (Hz) 50Hz / 60Hz  Battery Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery Battery Input Voltage (V) 96V Battery Capacity (AH) 100AH Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W Voltage at Pmax (V) 35.8V Current at Pmax (A) 5.59A Open-Circuit Voltage (V) 44.75A Short-Circuit Voltage (V) 6.09A		Recommended Input Power Range (W)	1600W - 6000W
Charging Efficiency >96%  Maximum Discharge Current (A) 60A  Charge Type PWM / MPPT  Maximum Input Power 6000W  Charging Current (A) 15A  Charging Time 8 hours > 90% (80A maintenance free Lead-Acid Battery)  AC Output Volatge (V) 110Vac / 220Vac / 230Vac  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 96V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A  Short-Circuit Voltage (V) 6.09A		Charging Current (A)	60A
Charge Type PWM / MPPT  Maximum Input Power 6000W  Charging Current (A) 15A  Charging Time 8 hours > 90% (80A maintenance free Lead-Acid Battery)  AC Output Volatge (V) 110Vac / 220Vac / 230Vac  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 96V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A  Short-Circuit Voltage (V) 6.09A		Charging Efficiency	>96%
Maximum Input Power   6000W		Maximum Discharge Current (A)	60A
AC Charging Current (A)  Charging Time  AC Output Volatge (V)  AC Input Frequency (Hz)  Battery  Battery Type  Battery Li-ion, GEL Battery  Battery Capacity (AH)  Quanty for Standard Configuration  Power Output (W)  Voltage at Pmax (V)  Current at Pmax (A)  Open-Circuit Voltage (V)  Short-Circuit Voltage (V)  Short-Circuit Voltage (V)  Short-Circuit Voltage (V)  Short-Circuit Voltage (V)  AC Input Frequency (Hz)  Solar Panel  Solar Panel  Solar Panel  Short-Circuit Voltage (V)  Solar Panel  Short-Circuit Voltage (V)  Short-Circu		Charge Type	PWM / MPPT
AC Charging Time  AC Output Volatge (V)  AC Input Frequency (Hz)  Battery Type  Battery Input Voltage (V)  Battery Capacity (AH)  Quanty for Standard Configuration  Power Output (W)  Voltage at Pmax (V)  Current at Pmax (A)  Open-Circuit Voltage (V)  Short-Circuit Voltage (V)  Short-Circuit Voltage (V)  Short-Circuit Voltage (V)  Solar Panel  AC Output Volatge (V)  110Vac / 220Vac / 230Vac  110Vac / 220Vac / 230Vac  100Vac  10		Maximum Input Power	6000W
AC Output Volatge (V) 110Vac / 220Vac / 230Vac  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 96V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A  Short-Circuit Voltage (V) 6.09A	AC Charging	Charging Current (A)	15A
AC Output Volage (V) AC Input Frequency (Hz)  Battery Type Battery Input Voltage (V) Battery Capacity (AH) Quanty for Standard Configuration Voltage at Pmax (V) Voltage at Pmax (V) Current at Pmax (A) Open-Circuit Voltage (V) Short-Circuit Voltage (V) Short-Circuit Voltage (V) SOHAZ SOHA		Charging Time	8 hours > 90% (80A maintenance free Lead-Acid Battery)
Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 96V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 8 pcs, 12V / 100AH (connected in series)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A  Short-Circuit Voltage (V) 6.09A		AC Output Volatge (V)	110Vac / 220Vac / 230Vac
Battery         Battery Input Voltage (V)         96V           Battery Capacity (AH)         100AH           Quanty for Standard Configuration         8 pcs, 12V / 100AH (connected in series)           Power Output (W)         200W           Voltage at Pmax (V)         35.8V           Current at Pmax (A)         5.59A           Open-Circuit Voltage (V)         44.75A           Short-Circuit Voltage (V)         6.09A		AC Input Frequency (Hz)	50Hz / 60Hz
Battery   Battery Capacity (AH)   100AH     Quanty for Standard Configuration   8 pcs, 12V / 100AH (connected in series)	Battery	Battery Type	Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery
Solar Panel   Solar Panel Panel   Solar Panel   Solar Panel Panel   Solar Panel Panel Panel Panel Panel Panel Pa		Battery Input Voltage (V)	96V
Power Output (W)   200W   Voltage at Pmax (V)   35.8V   Current at Pmax (A)   5.59A   Open-Circuit Voltage (V)   44.75A   Short-Circuit Voltage (V)   6.09A		Battery Capacity (AH)	100AH
Voltage at Pmax (V)         35.8V           Current at Pmax (A)         5.59A           Open-Circuit Voltage (V)         44.75A           Short-Circuit Voltage (V)         6.09A		Quanty for Standard Configuration	8 pcs, 12V / 100AH (connected in series)
Current at Pmax (A)         5.59A           Open-Circuit Voltage (V)         44.75A           Short-Circuit Voltage (V)         6.09A	Solar Panel	Power Output (W)	200W
Current at Pmax (A)         5.59A           Open-Circuit Voltage (V)         44.75A           Short-Circuit Voltage (V)         6.09A		Voltage at Pmax (V)	35.8V
Open-Circuit Voltage (V) 44.75A Short-Circuit Voltage (V) 6.09A			
Short-Circuit Voltage (V) 6.09A		Open-Circuit Voltage (V)	44.75A
			6.09A
		Quanty for Standard Configuration	8 pcs (connected 4 in series, then 2 in parallel)

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