

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

Model Number: SHIGP-01500

## 1500W 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.

DC Input Voltage (V)	Parameters	Description	Specifications
Rated Output Violage (V)	Inverter	DC Input Voltage (V)	24Vdc
Frequency Int.]   Solv.220.5 (-Solv.220.5		AC Output Volatge (V)	110V±10% / 220V±10% / 230V±10%
Dutput Wave   Pure Sine Wave   Pure Sine Wave   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of the rated power for 1s   Pack Power   3 Times of 1s   Pack Power   3 Tim		Rated Output Voltage (V)	1500W
Peak Power		Frequency (hz)	50HZ±0.5 / 60HZ±0.5
Transfer Efficiency   25%   20W   100 ald loss (W)   20W   20W   100% of rated power, restart after 30s   100% of rated power, shutdown after 10s   100% of rated power, shutdown after 10s   100% of rated power, shutdown after 10s   100% of rated power, shutdown after 1s   100% of		Output Wave	Pure Sine Wave
No Load loss (W)   \$20 W   120% of rated power, restart after 30s		Peak Power	3 Times of the rated power for 1s
Solar Controller   Solar Controller Controller   Solar Controller   Solar Controller Controller   Solar Controller Controller		Transfer Efficiency	>85%
Inverter Inverter  Operating Temperature (°C)  Deprating Temperature (°C)  - 20°C to 150°C  Storage Temperature (°C)  - 25°C to 70°C  Product Size (mm)  A40mm x 197mm x 385mm  Shell Material  Cast Iron  Product N.W. (kgs)  Packing Material  Packing Size (mm)  S50mm x 255mm x 497mm  Oty / Ctn (pcs)  Gross Weight (kgs)  Display  LCD + LED  Display  LCD + LED  Display  LCD + LED  Display (bight (kgs)  Solar Controller Protection  Cow & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature  Solar Controller Input (V)  Recommended Input Voltage (V)  Asximum Discharge Current (A)  Charging Efficiency  Maximum Discharge Current (A)  Charging Efficiency  Asximum Discharge Current (A)  Charging Efficiency  Maximum Discharge Current (A)  Charging Time  Asximum Discharge Current (A)  Charging Time  As Nours ≥ 90% (80A maintenance free Lead-Acid Battery)  AC (Linput Frequency (Hz)  AC (Linput Frequency (Hz)  AC (Linput Frequency (Hz)  Solar 2004  AC (Linput Frequency (Hz)  Solar (2004)  AC (Linput Frequency (Mz)  Solar (Maximum Discharge Current (A)  AC (Linput Frequency (Hz)  Solar (A)  AC (Linput Frequency (Hz)  Solar (A)  Solar (B)  AC (Linput Frequency (Mz)  Solar (B)  S		No Load loss (W)	≤ 20 W
Diperating Temperature (°C)   -20°C to +50°C		Over load Protection	120% of rated power, restart after 30s
Newton   Operating Temperature (°C)   - 20°C to +50°C			150% of rated power, shutdown after 10s
Storage Temperature ("C)			200% of rated power, shurdown after 1s
Product Size (mm)		Operating Temperature (°C)	- 20°C to +50°C
Shell Material   Cast Iron		Storage Temperature (°C)	- 25°C to 70°C
Product N.W. (kgs)		Product Size (mm)	440mm x 197mm x 385mm
Packing Material Wooden Case Packing Size (mm) 505mm x 255mm x 497mm  Otry (Tru (pcs) 1 pc Gross Weight (kgs) 26.4 kgs Display LCD + LED Display LCD + LED Complete Protection Dc & AC Overload, Under-Voltage, AC Output Voltage, Load, Running Status Complete Protection Dc & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature Solar Controller Recommended Input Voltage (V) 36Vdc Recommended Input Voltage (W) 400W - 1000W Charging Current (A) 30A Charging Efficiency >96% Maximum Discharge Current (A) 30A Charge Type PWM / MPPT Maximum Input Power 1000W 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) 24V Battery Capacity (AH) 100AH Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel) Voltage at Pmax (V) 35.89A Open-Circuit Voltage (V) 44.75A		Shell Material	Cast Iron
Packing Size (mm) Qty / Ctn (pcs) Qty / Ctn (pcs) Gross Weight (kgs) Display LCD + LED Display LCD + LED Display Content Complete Protection DC & AC Overload, Under-Voltage, AC Output Voltage, Load, Running Status Complete Protection DC & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature Solar Controller Recommended Input Voltage (V) Recommended Input Voltage (W) Recommended Input Voltage (W) Recommended Input Power Range (W) AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature Solar Controller Recommended Input Power Range (W) AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature Solar Controller Recommended Input Voltage (V) 3004 Charging Current (A) 3004 Charging Efficiency 966% Maximum Discharge Current (A) 3004 Charging Efficiency 966% Maximum Diput Power 10000W Charging Current (A) 1504 Charging Time 8 hours ≥ 90% (80A maintenance free Lead-Acid Battery) AC Output Voltage (V) 110Vac / 220Vac / 230Vac AC Output Voltage (V) 4C Output Voltage (V) 4D Solter / GOHz Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery Battery Capacity (AH) Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel) Voltage at Pmax (V) 35.8V Current at Pmax (A) 5.59A Open-Circuit Voltage (V) 44.75A		Product N.W. (kgs)	21.75 kgs
Otty / Ctn (pcs)   1 pc		Packing Material	Wooden Case
Gross Weight (kgs)   26.4 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		Packing Size (mm)	505mm x 255mm x 497mm
Display   LCD + LED		Qty / Ctn (pcs)	1 pc
Display   LCD + LED		Gross Weight (kgs)	26.4 kgs
Display Content   Complete Protection   DC & AC Overload, Under-Voltage, AC Output Voltage, Load, Running Status			
Solar Controller Input (V)   30Vdc - 50Vdc			PV Status, Battery Capacity, AC Input Voltage, AC Output Voltage, Load, Running Status
Solar Controller  Recommended Input Voltage (V) 36Vdc Recommended Input Power Range (W) 400W - 1000W  Charging Current (A) 30A Charging Efficiency >96% Maximum Discharge Current (A) 30A  Charge Type PWM / MPPT Maximum Input Power 1000W  Charging Current (A) 15A 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 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 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A Open-Circuit Voltage (V) 44.75A		Complete Protection	DC & AC Overload, Under-Voltage, SPD, Short-Circuit, Overcharged, Overdischarged, High Temperature
Solar Controller  Recommended Input Power Range (W) 400W - 1000W  Charging Current (A) 30A  Charging Efficiency >96%  Maximum Discharge Current (A) 30A  Charge Type PWM / MPPT  Maximum Input Power 1000W  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 Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A	Solar Controller	Solar Controller Input (V)	30Vdc - 50Vdc
Solar Controller  Recommended Input Power Range (W) 400W - 1000W  Charging Current (A) 30A  Charging Efficiency >96%  Maximum Discharge Current (A) 30A  Charge Type PWM / MPPT  Maximum Input Power 1000W  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 Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A		Recommended Input Voltage (V)	36Vdc
Solar Controller  Charging Efficiency >96%  Maximum Discharge Current (A) 30A  Charge Type PWM / MPPT  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  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 24V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A			400W - 1000W
Charging Efficiency >96%  Maximum Discharge Current (A) 30A  Charge Type PWM / MPPT  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  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 24V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A		Charging Current (A)	30A
Charge Type PWM / MPPT  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  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 24V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A		Charging Efficiency	>96%
Charge Type PWM / MPPT  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  AC Input Frequency (Hz) 50Hz / 60Hz  Battery Type Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery  Battery Input Voltage (V) 24V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A		Maximum Discharge Current (A)	30A
AC Charging Current (A)  Charging Time  AC Output Volatge (V)  AC Input Frequency (Hz)  Battery  Battery Type  Battery Input Voltage (V)  Quanty for Standard Configuration  A pcs, 12V / 100AH (connected in series - parallel)  Power Output (W)  Voltage at Pmax (V)  Current at Pmax (A)  Open-Circuit Voltage (V)  444.75A  Charging Current (A)  15A  16A  16B  8 hours ≥ 90% (80A maintenance free Lead-Acid Battery)  110Vac / 220Vac / 230Vac  110Vac / 220Vac / 2			PWM / MPPT
AC 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) 24V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A		Maximum Input Power	1000W
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) 24V  Battery Capacity (AH) 100AH  Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W  Voltage at Pmax (V) 35.8V  Current at Pmax (A) 5.59A  Open-Circuit Voltage (V) 44.75A	AC Charging	Charging Current (A)	15A
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) 24V Battery Capacity (AH) 100AH Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel)  Power Output (W) 200W Voltage at Pmax (V) 35.8V Current at Pmax (A) 5.59A Open-Circuit Voltage (V) 44.75A		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) 24V Battery Capacity (AH) 100AH Quanty for Standard Configuration 4 pcs, 12V / 100AH (connected in series - parallel) Power Output (W) 200W Voltage at Pmax (V) 35.8V Current at Pmax (A) 5.59A Open-Circuit Voltage (V) 44.75A		AC Output Volatge (V)	110Vac / 220Vac / 230Vac
Battery   Input Voltage (V)   24V		AC Input Frequency (Hz)	50Hz / 60Hz
Battery Capacity (AH)   100AH     Quanty for Standard Configuration   4 pcs, 12V / 100AH (connected in series - parallel)	Battery	Battery Type	Maintenance Free Lead-Acid Battery, Li-ion, GEL Battery
Solar Panel		Battery Input Voltage (V)	24V
Power Output (W)   200W   Voltage at Pmax (V)   35.8V   Current at Pmax (A)   5.59A   Open-Circuit Voltage (V)   44.75A			100AH
Solar Panel         Voltage at Pmax (V)         35.8V           Current at Pmax (A)         5.59A           Open-Circuit Voltage (V)         44.75A		Quanty for Standard Configuration	4 pcs, 12V / 100AH (connected in series - parallel)
Solar Panel         Current at Pmax (A)         5.59A           Open-Circuit Voltage (V)         44.75A	Solar Panel	Power Output (W)	200W
Solar Panel         Current at Pmax (A)         5.59A           Open-Circuit Voltage (V)         44.75A		Voltage at Pmax (V)	35.8V
Open-Circuit Voltage (V) 44.75A			5.59A
		1 1	44.75A
			6.09A
Quanty for Standard Configuration 2 pcs (connected in parallel)			2 pcs (connected in parallel)

## **SEEDS Tech Limited**

Room 2, 6/F., Lemmi Centre, 50 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong

Tel. No.: +852 3187 2701 www.seeds-life.com