

## SPECIFICATIONS

Line Mode Specifications		
Model	GPEO-1K8L1-M	GPEO-3K6L1-M
Rated Output Power	1800VA	3600VA
	1500W	3000W
Nominal DC Input Voltage	12V	24V
Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	230Vac	
Low Line Voltage Disconnect	90Vac $\pm$ 3V (For Home Appliances)170Vac $\pm$ 3V (For Computers)	
Low Loss Voltage Re-connect	100Vac $\pm$ 3V (For Home Appliances)180Vac $\pm$ 3V (For Computers)	
High Line Voltage Disconnect	280Vac $\pm$ 3V	
High Line Voltage Re-connect	270Vac $\pm$ 3V	
Max AC Input Voltage	280Vac $\pm$ 3V	
Nominal Input Frequency	50Hz / 60Hz (Auto detection)	
Low Line Frequency Disconnect	40 $\pm$ 0.2Hz	
Low Line Frequency Re-connect	42 $\pm$ 0.2Hz	
High Line Frequency Disconnect	65 $\pm$ 0.2Hz	
High Line Frequency Re-connect	63 $\pm$ 0.2Hz	
Output Voltage Waveform	As same as input waveform	
Output Short Circuit Protection	Line mode: Circuit Breaker Battery mode: Electronic Circuits	
Efficiency (Line Mode)	$\geq$ 92% (Rated R load, battery full charged)	
Transfer Time (Single unit)	10ms typical (UPS); 20ms typical (Appliances)	
Pass Through Without Battery	No	
Max. Bypass Overload Current	7.8A	15.6A
Max. Bypass Input Current	10A	20A
Max. Inverter/Rectifier Current	7.8A/1800VA	15.6A/3600VA

# Solar inverter

Utility Charge Mode Specifications			
Model	GPEO-1K8L1-M		GPEO-3K6L1-M
Nominal Input Voltage	230Vac		
Input Voltage Range	90-280Vac		
Nominal Output Voltage	Dependent on battery type		
Max. Grid Charge Current	60A	60A	
Charge Current Regulation	0A-60A (Adjustable unit is 1A)		
Over Charge Protection	Yes		
Grid Charging Current	<p>Relationship between battery charging current and mains voltage.</p> <p>— Battery voltage 12/24V</p>		
Solar Charging & Grid Charging			
Max. PV Open Circuit Voltage	130V	145V	
PV voltage range	15V-120V	30V-120V	
Max. Input Power	650W	1500W	
Max. Solar Charging Current	45A	60A	
Max. Charging Current(PV+Grid)	105A	120A	
Max. Input Current	20A	30A	
Min. Startup Voltage	+6V start up		
Charge Algorithm			
Algorithm	<b>Three stage:</b> Boost CC (Constant current stage)-> Boost CV (Constant voltage stage)-> Float (Constant voltage stage)		
Charging Curve	<p>ADJUSTABLE TIME DEPENDING ON</p> <p>FOR 24 VOLTS X2</p> <p>THE NEW BATTERY CHARGERS AND BATTERIES OFFER THE FASTEST CHARGE RATE CURRENTLY AVAILABLE</p> <p>STEP 1: CONSTANT CURRENT CHARGE</p> <p>STEP 2: ABSORPTION / FLOAT AT 14.6V</p> <p>STEP 3: FLOAT CHARGE</p>		
Battery Type Setting	Battery Type	Boost CC/CV	Float
	AGM	14.1V/28.2V	13.5V/27V
	Flooded	14.5V/29.2V	13.5V/27V
	Self - defined Lithium	Adjustable, up to 14.5V/30V	

Inverter Mode Specifications		
Model	GPEO-1K8L1-M	GPEO-3K6L1-M
Rated Output Power	1800VA	3600VA
	1500W	3000W
Nominal DC Input Voltage	12V	24V
Output Voltage Waveform	Pure sine wave	
Nominal Output Voltage	230Vac±5%	
Nominal Output Frequency (Hz)	50±0.2Hz/60±0.2Hz(Adjustable)	
Parallel capability	No	
Peak Efficiency	95%	
Over-Load Protection (SMPS load)	2s@≥150%load;10s@105%~150%load	
Surge Rating	2* rated power for 2s	
Capable of Starting Electric	Yes	
Output Short Circuit Protection	Yes	
Cold Start Voltage	11.5V	23V
Low DC Input Shut-down @Load < 50% @Load ≥ 50%	10.7V	22V
	10.5V	21V
High DC Input Alarm & Fault	15.5V±0.2V	31V±0.2V
High DC Input Recovery	14.5V±0.2V	29V±0.2V
<b>Battery Voltage Limitation</b> When battery voltage is lower than 12/24Vdc, output power will be derated. The minimum AC output voltage is 180V.		
<b>Temperature Limitation</b> When ambient temperature is higher than 35°C/40°C, output power will be derated. The minimum AC output voltage is 180V.		
General Specifications		
Operating Temperature	-10°C~50°C	
Range Storage Temperature	-15°C~60°C	
Net Weight(KG)	5.5kG	6.0kG
Gross Weight(KG)	6.5kG	7.0kG
Product Size(D*W*H)	350x290x108mm	
Package Dimension(D*W*H)	495x385x165mm	