



**GPC-3.6LV/4.0LV/4.6LV/  
5.0LV/5.5LV/6.0LV**

**PV Hybrid Inverter**

### Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 16A+16A PV input current

### Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

### All-in-one

- Up to 100A charging current
- Supports Li-ion battery BMS communication

### Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree

### User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

### Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

#### Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

Model	GPC-3.6LV	GPC-4.0LV	GPC-4.6LV	GPC-5.0LV GPC-5.5LV	GPC-6.0LV	Settable
<b>AC OUTPUT (LOAD)</b>						
Rated Output Power	3600W	4000W	4600W	5500W	6000W	
Max. Peak Power	7200VA	8000VA	9200VA	11000VA	12000VA	
Rated Output Voltage	230Vac (Single phase) (200/208/220/240Vac settable)					✓
Load Motor Capacity	3HP		4HP			
Rated Frequency	50/60Hz ±0.3Hz					
Waveform	Pure Sine Wave					
Switch Time	10ms (typical)					
<b>AC OUTPUT (GRID)</b>						
Rated Output Power	3600W	4000W	4600W	5500W	6000W	
Max. Apparent Power	3960VA	8000VA	9200VA	11000VA	12000VA	
Power Factor	0.8 leading to 0.8 lagging					
Rated Voltage	220/230Vac					
Rated AC Frequency	50/60Hz					
Rated AC Output Current	15.7Aac	17.4Aac	20Aac	24Aac	26Aac	
THD	<3%					
<b>BATTERY</b>						
Battery Type	Li-ion / Lead-Acid / User-defined					✓
Rated Battery Voltage	48V					
Battery Voltage Range	40~60Vdc					
Max. Grid Charging Current	60Adc					
Max. Generator Charging Current	60Adc					
Max. Hybrid Charging Current	100Adc					
<b>PV INPUT</b>						
No. of MPPT Trackers	2					
Max. PV Input Power	2700W+2700W	3000W+3000W	3500W+3500W	4000W+4000W	4500W+4500W	
Max. PV Input Current	16A+16A					
Max. Short Circuit Current	27A+27A					
Max. Open Circuit Voltage	500Vdc+500Vdc					
MPPT Operating Voltage Range	120~450Vdc					
<b>GRID/GENERATOR INPUT</b>						
Input Voltage Range	90~280Vac					✓
Input Frequency Range	50/60Hz					
Bypass Overload Current	40Aac					
<b>EFFICIENCY</b>						
MPPT Tracking Efficiency	99.9%					
Max. Efficiency	97.5%					
European Efficiency	97%					
<b>GENERAL DATA</b>						
Parallel Capacity	1~6 Units (More than 3 units in parallel can form a three-phase output)					
Dimension	556*345*182mm	Humidity			0~100%	
Weight	22.1kg	Cooling Method			Heat sink + intelligent fan cooling	
Protection Degree	IP65	Warranty			5 years	
Temperature	-25 to +60°C, >45°C Derate	Communication			RS485/CAN/USB/Dry Contact	
External Module (Optional)	Wi-Fi/GPRS	Noise			<60dB	
Certificate	EN50549-1,G99,NRS-097,VDE-ARN-4105,CEI021,UNE217002,IEC62109-1, IEC62109-2, EN61000-6-1,EN61000-6-3, FCC 15 class B,RoHS					
<b>PROTECTION</b>						
PV Reverse Protection	Yes	Anti-Islanding Protection			Yes	
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring			Yes	
Output Short-Circuit Protection	Yes	Output Over-Current Protection			Yes	
Over-Voltage Protection	AC type II/DC type III	Surge Protection			AC type II/DC type II	