



GPC Series PV Hybrid Inverter

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 22A*2 PV input current

Safety

- With software and hardware security protection
- Multiple safety approvals

All-in-one

- Up to 200A 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-8.0TLV	GPC-10TLV	GPC-12TLV	Can Be Set
INVERTER OUTPUT				
Rated Output Power	8,800W	10,000W	12,000W	
Max. Peak Power	17,600VA	20,000VA	24,000VA	
Rated Output Voltage	230Vac single-phase / three-phase (parallel)			✓
Load Capacity of Motors	5HP	6HP		
Output Frequency	50/60Hz			
Number of Parallel	1~6 units			
AC OUTPUT (Grid)				
Rated Output Power	8,800W	10,000W	12,000W	
Max. Apparent Power	8,800VA	10,000VA	12,000VA	
Max. Output Current	40A	43.5A	54.5A	
Rated Output Voltage	230Vac			
THDI	< 3%			
Power Factor	0.8 leading to 0.8 lagging			
Frequency	50/60HZ			
BATTERY				
Battery Type	Lead-acid / Li-ion / User Defined			✓
Rated Battery Voltage	48V			
Battery Voltage Range	40~60Vdc			
Max. Generator Charging Current	60A			
Max. Grid Charging Current	120A			
Max. PV Charging Current	200A			✓
Max. Hybrid Charging Current	200A			✓
PV INPUT				
Num. of MPPT Trackers	2			
Max. PV Array Power	5,500W+5,500W		6,600W+6,600W	
Max. Input Current	22A+22A			
Max. Voltage of Open Circuit	500Vdc+500Vdc			
MPPT Voltage Range	125-425Vdc			
MAINS/GENERATOR INPUT				
Input Voltage Range	90~280Vac			✓
Frequency Range	50/60Hz			
Bypass Overload Current	63A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	97.5%			
European Efficiency	97%			
GENERAL				
Dimensions	670*440*240mm			
Weight	37kg			
Protection Degree	IP65			
Operating Temperature Range	-25~60°C, >45°C derated			
Humidity range	0~100%			
Cooling Method	Forced air cooling			
COMMUNICATION				
Embedded Interfaces	RS485/CAN/USB/Dry contact			✓
External Modules (Optional)	Wi-Fi / GPRS			✓
CERTIFICATION				
Safety	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			
Rohs	Yes			