



G8K-10K-12K-P3LA 3 Phase Inverter On-Grid/Off-Grid Hybrid Energy Storage



Main Features

- Ⓐ Maximum charge/discharge current:240A.
- Ⓧ 48V low-voltage battery with integrated transformer for safety isolation.
- Ⓢ Frequency droop control,supporting parallel operation of up to 10 units.
- Ⓜ AC-coupled compatibility for retrofitting existing solar systems.
- Ⓜ 100% three-phase unbalanced output,with each phase capable of delivering up to 50% of rated power.
- 👍 Direct support for diesel generators without the need for external converters.
- ⚙️ 6 programmable time periods with different operational modes.

Technical Parameters / Model	G8K-P3LA	G10K-P3LA	G12K-P3LA
DC Input (PV)			
Max. photovoltaic Input Power	10400W	13000W	15600W
Max. DC Voltage		800V	
Starting Voltage		160V	
Rated Voltage		550V (160-800V)	
MPPT Operating Voltage Range		200V ~650V	
MPPT Quantity		2	
Number Of MPPT Strings Per Channel	1+1		2+1
Max. Input Current Of Each MPPT	13A+13A		26A+13A
Max. Short-Circuit Current Of Each MPPT	17A+17A		34A+17A
AC Output (Grid-Connected)			
Rated Power	8000W	10000W	12000W
Max. Apparent Power	8800VA	11000VA	13200VA
Rated Voltage		220/380Vac,230/400Vac (Three-Phase)	
Rated Frequency		50/60Hz	
Max. Output Current		45A	
Power Factor		0.8 Leading~0.8 Lagging	
THDI		<3%	
Grid Connection Type		3W+N+PE	
Battery Input			
Battery Type		Lithium-ion Battery/Lead-Acid Battery	
Operating Voltage Range		40V~60V	
Max. Charge and Discharge Current	160A/160A	200A/200A	240A/240A
AC Output (Backup Power)			
Max. Output Power	8000W	10000W	12000W
Max. Apparent Power	8800VA	11000VA	13200W
Max. Output Current	13.4A	18.4A	20A
Rated Voltage		220/380Vac,230/400Vac (Three-Phase)	
Rated Frequency		50/60Hz	
THD		<3%	
Switching Time		<10ms	
Efficiency			
Max. Efficiency		97.6%	
European Efficiency		97.0%	
MPPT Efficiency		99.0%	
Protection Facilities			
Photovoltaic Input Lightning Protection		Supported	
Island Protection		Supported	
DC Reverse Polarity Protection		Supported	
Insulation Resistance Test		Supported	
Leakage Current Monitoring Protection		Supported	
Output Over-Current Protection		Supported	
Output Short-Circuit Protection		Supported	
Output Over-Voltage Protection		Supported	
Surge Protection		Supported	
Over-Load Voltage Protection		Three-Level Lightning Protection on DC Side,Three-Level Lightning Protection on AC Side Second Level Lightning Protection on DC Side,Third Level Lightning Protection on AC Side	
General Data			
Dimensions (W*H*T mm)		422*702*281 mm	
Weight		37.5kg	
Range Of Working Temperature		-40~60°C,>45°C Derating	
Nighttime Power Consumption		100W	
Topology		Transformerless Design	
Cooling Method		Smart Cooling	
Protection Level		IP65	
Relative Humidity		10~90%	
Altitude		2000m	
DC Connection Type		MC4	
AC Connection Type		Connector	
Display Method		LCD Color Screen	
Communication Interface:RS485/CAN		Supported/Supported	
Monitoring Interface:WiFi		Supported	
Warranty Period:5 Years/10 Years		Available/Optional	
Certification		CE	