



# CASA-GIANT-G4 Inverter 75/100/125/150 kW Three Phase | High Voltage Hybrid | On/off-grid

CASA-GIANT-G4 Hybrid Inverter delivers reliable, uninterrupted power around the clock. Equipped with advanced feed-in functionality, it helps lower electricity costs while maximizing energy efficiency. With selectable high-power charging current, a wide input voltage range, and pure sine wave output, it provides safe, stable power for household appliances and sensitive electronic equipment.

## PRODUCT FEATURES



### Wide PV Input

- 200% PV input power
- Supports 10 MPPT channels
- 48A PV input current



### Strong Grid Input

- 270A Grid input current
- Supports simultaneous load supply & battery charging



### High Efficiency

- Max. efficiency 98.8%
- SiC Technology



### Dedicated Genset Port

- Auto start-stop for generator
- 270A Max generator input current



### Strong Overload

- 133% continuous overload
- Easily drives inductive loads
- Smooth startup, no tripping or power interruption



### Parallel Operation

- Supports up to 6 units in parallel (Off-grid Mode)
- Flexible power expansion for high-power loads
- Stable parallel system, strong scalability



### Battery Compatibility

- Compatible with lead-acid, lithium and sodium-ion batteries
- 2 independent battery branches compatible with new & used batteries
- 300A Battery Current



### Long Official Warranty

- Standard 5-year warranty
- Industrial-grade design & quality control
- Lower maintenance cost, higher reliability



### Intelligent Silent Cooling

- Intelligent temperature-controlled fan for quiet operation

# SPECIFICATIONS

Model Name	CASA-G-75K	CASA-G-100K	CASA-G-125K	CASA-G-150K
<b>Off-grid Parameter</b>				
Rated Output Power	75 kW	100 kW	125 kW	150 kW
Max. Output Power	82.5 kVA	110 kVA	137.5 kVA	166 kVA
Rated Output Current	114 A @220V	152 A @220V	189 A @220V	227 A @220V
Max. Output Current	125 A @220V	167 A @220V	208 A @220V	250 A @220V
Peak Output Current	228 A (100ms)	302 A (100ms)	302 A (100ms)	302 A (100ms)
Rated Voltage	3/N/PE, 220/380V ; 230/400V ; 277/480V			
Rated Frequency	50 / 60Hz			
Output Power Factor	>0.99 ( -0.8-- +0.8 )			
THDu	< 2%			
<b>On-grid Parameter</b>				
Rated Power	75 kW	100 kW	125 kW	150 kW
Max. Output Power	82.5 kVA	110 kVA	137.5 kVA	166 kVA
Rated Output Current	114 A @220V	152 A @220V	189 A @220V	227 A @220V
Max. Output Current	125 A @220V	167 A @220V	208 A @220V	250 A @220V
Rated Voltage	3/N/PE, 220/380V ; 230/400V ; 277/480V			
Max. Input Current	270 A			
Rated Frequency	50 / 60Hz			
THDi	< 2%			
<b>PV Parameter</b>				
Max. Installed Power	150 kWp	200 kWp	250 kWp	300 kWp
Max. Power	150 kWp	200 kWp	250 kWp	250 kWp
Max. power per MPPT	15 kWp	20 kWp	25 kWp	25 kWp
Startup Voltage	180 V			
Max. Input Voltage	1100 V			
MPPT voltage range	150 - 1000 V			
Number of MPPTs / Max. Number of Strings	10 / 20			
Rated Voltage	625 V			
Maximum input current	10 * 48 A			
Short-circuit current	10*63 A (TBD)			
<b>Battery Parameter</b>				
Battery Type	Lithium-ion / Lead-acid / Sodium			
Battery Channels	2			
Voltage	500 - 950 V			
Rated Power	75 kW	100 kW	125 kW	150 kW
Max. Current	150 A*2			
COMM Interface	CAN*2 / RS485*2			
<b>Generator Parameter</b>				
Max. Input Current	270 A			
Max. Input Power	186.3 kVA @230V			
Rated Voltage	3/N/PE, 220/380V; 230/400V; 277/480V			
Rated Frequency	50 / 60Hz			
<b>Efficiency</b>				
Max. Efficiency	98.8%			
European/CEC Efficiency	98%			
<b>General Data</b>				
Dimensions (W*H*D)	1244*848*385 mm			
Weight	180 kg (TBD)			
Topology	Non-isolated			
Operating Temperature	-25 °C ~ +60 °C			
Operating Humidity	0-100 %			
Cooling Type	Intelligent Air Cooling			
IP	IP66			
Max. Operating Altitude	4000 m			
COMM Interface	RS485*1, Ethernet / Wi-Fi / 4G / Bluetooth, DO*2, DI*2, AI*1, AO*1, DRM*1			
HMI	LCD / WIFI / LAN / 4G			
<b>Certification</b>				
CE-EMC	IEC 62920, IEC 62477-1, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4			
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2			
Grid	CEI-016, EN50549, VDE-AR-N 4105 (2026)			