



G6K/8K/10/12K-P1LA Single Phase Hybrid Inverter



Main Features

- Maximum charge/discharge current: 190A.
- Up to 16 units can be connected in parallel during grid-connected and off-grid operation, supports parallel connection of multiple batteries.
- Supports AC AC coupling to retrofit existing solar systems.
- Color touch screen IP65 protection level.
- Directly supports diesel generator power without external converter.
- 6 programmable time periods with different operational modes.

Parametri Tecnici / Model	G6K-P1LA	G8K-P1LA	G10K-P1LA	G12K-P1LA
PV String Input Data				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	370V (125V~500V)			
MPPT Voltage Range(V)	150~430V	150~425V		
Max. Power DC voltage range	200~425V			
Start-up Voltage(V)	125V			
Max. DC Short-circuit Current (A)	22+22	26+26	26+26+26	26+26+26
Number of MPPTS	2			
Number of Strings per MPPT	2+2	2+2	2+2+2	2+2+2
Efficiency				
Maximum Efficiency	97.60%			
European Efficiency	96.50%			
MPPT Efficiency	>99%			
AC Output				
Rated AC output power(W) and Rated output power UPS(W)	6000	8000	10000	12000
Max AC output Active Power (W)	6600	8800	11000	13200
Peak Power (Off-grid)	2 times rated power, 10 seconds			
AC Output Rated current (A)	27.3	34.8	43.5	52.2
Max AC Output Current (A)	30	38.2	47.8	57.4
Rated AC current of BYPASS relays(A)	40	50	60	60
Power Factor	0.8 (leading) to 0.8 (lagging)			
Output frequency and voltage	50/60Hz; L/N/PE 220/230V (single phase)			
Grid Type	Single Phase			
THDI (Rated power)	<3% (of nominal power)			
Grid DC component	<0.5% In			
Battery				
Battery Type	Lead-acid or Lithium Battery			
Rated battery voltage	40~60			
Maximum Charging Current (A)	135	190	220	250
Maximum Discharge Current (A)	135	190	220	250
Charging Curve	Three-stage Charging/Equalization Charging			
External Temperature Sensor	Available			
Battery Management System	Adaptive BMS System			
Protection				
PV Arc Fault Detection	Available			
PV Input Lightning Protection	Available			
Anti-islanding Protection	Available			
PV String Input Reverse Polarity Protection	Available			
Insulation Resistor Detection	Available			
Residual Current Monitoring Unit	Available			
Output Over Current Protection	Available			
Output Shorted Protection	Available			
Surge Protection	DC Type II / AC Type II			
Over Voltage Category	DC Type II / AC Type III			
Certifications and Standards				
Grid Certification	IEC61727/62116,EN50549-1			
Safety/EMC Standards	IEC/EN 62109-1,IEC/EN 62109-2,IEC/EN 61000-6-1, IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4			
Other				
Operating Temperature Range (°C)	-40~60°C, >45°C Derating			
Cooling Method	Smart Cooling			
Noise Level (dB)	<30 dB			
BMS Communication Port	Rs485; CAN			
Weight (kg)	24			
Cabinetsize(mm)	330W×580H×232D(Excluding Connectors And Brackets)			
Protection Level	IP65			
Installation Method	Wall-mounted			
Warranty	5 Years			