

SINGLE PHASE HYBRID SOLAR INVERTER

Galaxy-5K/6K-HY-Version-10G-Pro Plus



HEAVY-DUTY OPERATION

- 5 ms fast switching time
- Adaptive speed adjustment fan
- Super strong inductive load capacity



BACKUP POWER

- Independent AC input port for diesel generator Support storing energy from diesel generator



EXCELLENT PERFORMANCE

- Support high power PV panel with 27A PV input current
- Max. battery charge/discharge current of 150A
- Continuous 110% of nominal AC power



HIGH FLEXIBILITY

- Support 40-60V Lithium or Lead-acid battery
- Support generator/smart load/AC coupling
- Max. 20 units parallel



SAFTY & RELIABILITY

- IP65: Indoor or outdoor installation
- Multiple built-in protections
- Compact and lightweight, easy to transport and space-saving



INTELLIGENT FUNCTIONS

- LCD touch color screen, easy to operate
- Intelligent management, support remote monitoring



Technical Data

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Model	Galaxy-5K-HY-Version-10G-Pro Plus	Galaxy-6K-HY-Version-10G-Pro Plus
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Nominal Battery Voltage	48	
Battery Voltage Range (V)	40~60	
Max. Charging Current (A)	150	
Max. Discharging Current (A)	150	
Number of Battery Input	1	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. PV Input Power (W)	12,000 W	
Max. PV Input Voltage (V)	500 V	
Start-up Voltage (V)	125V	
MPPT Voltage Range (V)	370V (125V-500V)	
Max. PV Input Current (A)	18A+18A	
Max. Short-Circuit Current (A)	27A+27A	
No.of MPP Trackers	2	
No.of Strings per MPP Tracker	1+1	
AC Input/Output Data		
Rated AC Input/Output Active Power (W)	5000	6000
Max. AC Input/Output Apparent Power (VA)	6600	7260
Rated AC Input/Output Current (A)	21.8	26
Max. AC Input/Output Current (A)	28.7	32
Max. Continuous AC Passthrough (grid to load) (A)	40A	
Peak Power (off grid)	2 time of rated power, 10 S	
Power Factor Adjustment Range	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	
Rate Input/Output Voltage(V)	220/230	
Rated Input/Output Grid Frequency/Range(Hz)	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz	
Grid Connection Form	L+N+PE	
Total Current Harmonic Distortion THDi	THD<3%(Linear load <1.5%)	
DC Injection Current	<0.5% In	
Efficiency		
Max. Efficiency (PV to AC)	97.60%	
Eur. Efficiency (PV to AC)	96.50%	
MPPT Efficiency	99.00%	
Equipment Protection		
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output ShortedProtection	
Surge Protection Level	TYPE II(DC), TYPE II(AC)	
Interface		
Display	LED, LCD	
Communication	RS485,CAN	
General Data		
Operating Temperature Range (°C)	-40~60,(>45°C derating)	
Relative Humidity	0-100%	
Permissible Altitude	3000m	
Noise	<55dB	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Type of Cooling	Air Cooling	
Weight (kg)	13 Kg	
Cabinet Size (WxHxD mm)	H450*W305*D165(Excluding connectors and brackets)	
Ingress Protection(IP) Rating	IP65	
Installation Style	Wall-Bracket	
Grid Regulation	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC61727,G99,G98,VDE 0126-1-1,RD 1699,C10-11	
Safety / EMC Standard	IEC/ED 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1, IEC/EN 61000-6-3	
Warranty	5 Years Standard	