

SINGLE PHASE AC COUPLED INVERTER

GS 5KAC



HIGH YIELD

- Max Charge/Discharge efficiency 95%
- Convenient to retrofit existing grid-connected systems increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	GS 5KAC
Efficiency	
Max. Efficiency	95%
Input (Battery)	
Battery Type	Lithium-ion / Lead-Acid
Nominal Battery Voltage	48V
Battery Voltage Range	42-60V
Max. Charge / Discharge Current	100A
Lithium-ion Battery Charge Curve	Self-adaption to BMS
Lead-Acid Battery Charge Curve	3 stages
Output (Grid)	
Rated AC Active Power	5000W
Max.Ac Active power	5500W
Rated AC Voltage	230V
Max. AC Current Output to Utility Grid (A)	23.8A
AC Voltage Range①	180V-275V (Adjustable)
Rated Grid Frequency	50Hz / 60Hz
Grid Frequency Range②	55Hz-65Hz (Adjustable)
THDI	<3% (Rated Power)
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading – 0.8Lagging)
Output (EPS)	
Nominal Output Power	5000VA
Nominal Output Voltage	230V
Nominal Output Frequency	50Hz / 60Hz
THDV	<3% @100% R Load
Switching Time (Typical)	10ms
Protection	
Anti-islanding protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
Insulation detection	Support
Leakage current protection	Support
General	
Topology	High Frequency Isolation
IP Rating	IP65
Cooling	Natural cooling
Operating Temperature Range	-25°C-60°C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m
Noise(Typical)	<30dB
Dimensions (W*H*D)	515*500*175mm
Weight	28Kg
HMI & COM	
Display	LED&APP
Communication	RS485, CAN, WIFI / GPRS / 4G (optional)
Certification	
Safety	IEC62477-1, IEC62040-1
Grid Code	AS / NZS 4777.2, IEC 61727 / 62116, VDE4105-AR-N, EN 50549
Warranty	5 Years / 10 Years (Optional)

Remarks : • ①②The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

SINGLE PHASE HYBRID INVERTER

GS 5000HB-60/100



HIGH YIELD

- Max efficiency 97.6% ,European efficiency 97.3%Max.
- Charge / Discharge Current 100A
- Reasonable energy control to increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	GS 5000HB-60		GS 5000HB-100	
Efficiency				
Max. Efficiency (PV to Grid)			97.6%	
European Efficiency			97.3%	
Max. Efficiency (Battery to Load)			95%	
Input (PV)				
Max. Input Voltage			550V	
Rated Input Voltage			360V	
Max. Input Current			13A	
Max.Short Circuit Current			15A	
Start Input Voltage			90V	
MPPT Operating Voltage Range			70V-540V	
Max. Number of PV Strings			2	
No. of MPPTs			2	
Input (Battery)				
Battery Type			Lithium-ion / Lead-Acid	
Nominal Battery Voltage			48V	
Battery Voltage Range			42-60V	
Max. Charge / Discharge Current	60A			100A
Lithium-ion Battery Charge Curve			Self-adaption to BMS	
Lead-Acid Battery Charge Curve			3 stages	
Output (Grid)				
Rated AC Active Power			5000W	
Max.Ac Active power			5500W	
Rated AC Voltage			230V	
AC Voltage Range①			180V-275V (Adjustable)	
Rated Grid Frequency			50Hz / 60Hz	
Grid Frequency Range②			55Hz-65Hz (Adjustable)	
Max. AC Current Output to Utility Grid (A)			23.8A	
THDI			<3% (Rated Power)	
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)			
Output (EPS)				
Nominal Output Power	3600VA			5000VA
Nominal Output Voltage			230V	
Nominal Output Frequency			50Hz / 60Hz	
THDV			<3% @100% R Load	
Switching Time (Optional)			10ms	
Protection				
DC switch			Support	
Anti-islanding protection			Support	
AC overcurrent protection			Support	
AC short circuit protection			Support	
DC reverse connection			Support	
Surge Arrester			AC Type III, DC Type III (optional)	
Insulation detection			Support	
Leakage current protection			Support	
Anti-islanding protection			Support	
General				
Topology			High Frequency Isolation	
IP Rating			IP65	
Cooling			Natural cooling	
Operating Temperature Range			-25°C-60°C	
Relative Humidity Range			0-100%	
Max. Operating Altitude			4000m	
Noise (Typical)			<30dB	
Dimensions (W*H*D)			515*500*175mm	
Weight			28Kg	
HMI & COM				
Display			LED & APP	
Communication			RS485, CAN, WIFI / GPRS / 4G (optional)	
Certification				
Safety			IEC62109-1&2, IEC62040-1	
Grid Code			AS / NZS 4777.2:2015, IEC 61727 / 62116, VDE4105-AR-N, EN 50549	
Warranty			5 Years / 10 Years (Optional)	

Remarks : • ①②The range of output voltage and frequency may vary depending upon different grid codes.
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