



Compatible with Lithium-ion Batteries HV Three-phase Hybrid Inverter for Energy Storage

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GK
- Certification: IEC 61727, IEC 62116, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1
- Model Number: GKHTHI
- Minimum Order Quantity: 10 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Max Efficiency: 97.60%
- MPPT Efficiency: >99%
- Max. Charging/Discharging Current: 50A
- Max. DC Input Power: 25,000W
- Operating Temperature Range: -40°C To 60°C
- Protection Degree: IP65
- Highlight: ip65 hybrid inverter, ip65 hybrid power inverter

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The **HV Three-phase Hybrid Inverter** is a highly efficient energy storage solution designed for both on-grid and off-grid applications. It supports AC coupling, retrofitting existing solar systems, and offers intelligent air cooling technology. With 100% unbalanced output for each phase and the ability to connect up to 10 parallel units, it ensures reliable performance even in high-demand conditions. This hybrid inverter is compatible with lithium-ion batteries and features advanced protection mechanisms for overvoltage, short-circuit, and reverse connection safety.

Battery Input Data							
Battery Type		Lithium-ion					
Battery Voltage Range		160~700V					
Max.Charging Current 30A		30A	37A			50A	
Max.Discharging Curent 30A		30A	37A			50A	
Charging Strategy for LHon Battery Self-adaption to BMS							
Number of battery input 1							
PV String Input Data							
Max.DCInput Power 6500W	7800W	10400W	13000W	1	19500W	26000W	32500W
				5			
				6			
				0			
Max.DC Input Voltage		1000V					
Start-up Voltage		180V					
MPPT Range		150-850V					
Roted DC Input Voltage 600V							700V
Max.Operating PV Input Current 20+20A					26+20A	26+26A	
Max.Input Short-Circuit Current 30+30A					39+30A	39+39A	
No.of MPP Trockers							
Noof Strings per MPP		2/1+1			2/2+1	2/2+2	
Trocker							
AC Output Data							
Rated ACInput/Output Active Power 5000W	6000W	8000W	10000W	1	15000W	20000W	25000W
				2			
				0			
				0			
Max.AC Input/OutputApparent Power 5500W		6600W 8800W		11000W		16500W 22000W 27500W	
Rated AC Input/Output Current 7.6/7.3A	9.1/8.7 A	12.2/11.6 A	15.2/14.5 A	1	22.8/21.8 A	30.4/29A	37.9/36.3 A
				8.			
				2/			
				1			
Max.AC Input/Output Curent 8.4/8A		10/9.6 A		13.4/12.8 A		16.716A 25/24A 33.4/31.9 A 41.7/39.9 A	
Max.Three-phaseUrbalanced Ouput Current 13A	13A	18A	22A	2	30A	35A	41.7A
				0/			
				1			
				9.			
Max.ContinuousACPassthrough(grid to bood) 40A				80A			
Peak Power (off grid)		1.5 times of rated power,10s					
Power Factor Adjustment Range		0.8 leading to 0.8 lagging					
Rated Input/Output Voltage/Range		220/380V,230/400V 0.85Un-1.1Un					
Roted Input/Output Grid Frequency/Range		50/45-55,60/55-65					
Grid Connection Form		3L+N+PE					
Total Curent Hamonic Distortion THDi		<3%(of nomindl power)					
DC Injection Current		<0.5%In					
Efficiency							

Max.Efficiency 97.60%	
Euro Efficiency 97.00%	
MPPT Efficiency >99%	
Equipment Protection	
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level TYPE II(DC), TYPE I(AC)	
Interface	
Communication Interface WIFI, RS485, CAN	
General Data	
Operating Temperature Range(°C) -40~60°C, >45°C derating	
Permissible Ambient Humidity	0-100%
Permissible Ambient	2000m
Noise(dB)	<55
Ingress Protection(IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVCII(DC), OVCI(AC)
Cabinet Size (WxHxD mm)	408*638*237mm/16.01*25.1*9.3 in (Excluding Connectors and Brackets)
Weight	30.5kg/67 lbs
Type of Cooling	Natural Cooling Intelligent Air Cooling
Warranty	5 Years/10 Years
Grid Regulation	IEC61727, IEC 62116, CEI0-21, EN50549, NRS097, RD140, UNE 217002, OVE-Richtlinie R25, G99, VDE-ARN4105
Safety/EMC Standard	EC/EN61000-6-1/2/3/4, EC/EN62109-1, IEC/EN62109-2

Application:

Ideal for residential and commercial solar energy systems, this hybrid inverter maximizes energy efficiency with its >99% MPPT efficiency and can store energy from diesel generators for backup power during outages. Its modular design supports easy expansion, enabling scalability to meet growing energy demands.

Shipping Methods

Supports global air and sea shipping.



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