HV Three Phase Hybrid Inverter For On Grid And Off Grid Operations

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GK
- Certification: IEC 61727 IEC 62116 CEI 0-21 EN50549-1 G99 G98
- Model Number: GK HTHI
- Minimum Order Quantity: 5 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T

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Product Specification

- Max. Efficiency: 97.60%
- PV Input Power: 65,000W
- Max. Charging/Discharging Current: 100A
- Battery Voltage Range: 160~800V (Lithium-ion)
- Rated AC Output Power: 50,000W
- Ingress Protection: IP65
- Highlight: **Three Phase hybrid on grid solar inverter, IP65 hybrid on grid solar inverter, 100A hybrid on grid off grid inverter**

Product Description

HV Three-phase Hybrid Inverter The Ideal Solution for On-grid and Off-grid Operations

Product Description:

The HV Three-phase Hybrid Inverter is an advanced energy management solution designed to integrate both AC and DC coupling, offering superior flexibility for existing solar system retrofits. It features high efficiency with a maximum efficiency of 97.60% and an MPPT efficiency exceeding 99%. Equipped with robust protection systems such as DC polarity reverse connection, AC output overcurrent, and AC output overvoltage protection, this inverter guarantees system safety and long-term stability. With a colorful touch LCD and IP65 protection degree, the system is built for durability and ease of use in various environments.

Battery Input Data				
BatteryType	Lithium-ion			
Bottery Voltoge Range	160-800V			
Max Charging Current	50+50A			
Max.Discharging Cument	50+50A			
Charging Strategy for Li-ion Battery	Self-adoption to BMS			
Number of battery input	2			
PV String Input Data				
Max.DC Input Power 38870W	39000W	45500W	52000W	65000w
Max.DC Input Voltage	1000V			
Start-up Voltage	180V			
MPPT Voltoge Range	150-850V			
Roted DC Input Voltoge		600V		
Max.Operating PV Input Current 36+36+36A			36+36+36+36A	
Max.Input Short-Circuit Current 55+55+55A			55+55+55+55A	
No.of MPP Trackers/ No.of Stings per MPP Tracker	3/2+2+2		4/2+2+2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power 29900W	30000W	35000W	40000W	50000W
Max.AC Input/Output Apparent Power 29900W	33000W	38500W	44000W	55000W
Rated AC Input/Output Current 45.4/43.4A	45.5/43.5A	53.1/50.8A	60.7/58A	75.8/72.5A
Max.AC Input/Output Current 45.4/43.4A	50/47.9A	58.4/55.8A	66.7/63.8A	83.4/79.9A
Max.Three-phaseUhbalancdOutputCurert 60A	60A	60A	70A	83.3A
Max.Continuous ACPossthrough(gid toload)		200A		
Peak Power (off grid)	1.5 time of rated power,10S			
Power Foctor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range	220/380V,230/400V 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range	50/45-55,60/55-65			
Grid Connection Fom		3L+N+PE		
Total Current Harmonic Distortion THD	<3%(of nominal power)			
DCComponent of Grid		<0.5%In		

Protection

DCPolarity Reverse Connection Protection,ACOutput Overcurrent Protection,ACOutput Overvoltoge
Protection,AC Output Short CrauitProtection,ThemalProtection DC Terminal hsulation Impedarce
Monitorng,DCComponent Monitoring,Ground Foult Current Monitoring,Power Network Monitoring,
IslandProtection Monitoring,Earth Foult Detection,DCInput Switch Overvoltoge LoodDrop Protection,
ResidualCurent (ROD)Detection,Surge protection level
DC Type ll/AC Type ll

Interface

Communication Interface WIFI,RS485,CAN	
General Dota	
Operating Temperature Range(℃) -40-60℃,>45℃ derating	
Permissible Ambient Humidity	0~100%
Permissible Altitude	2000m

Noise	<65 dB(A)
Ingress Protection(IP)Rating	IP65
Inverter Topology	Non-Isolated
Over Voltoge Category	OVCI(DC),OVCIII(AC)
Size(W*H*D)	527*894*294mm/20.7*35.2*11.6 in (Excluding Connectors and Brackets)
Weight	80kg/176 lbs
Type ofCooling	Intelligent Air Cooling
Warranty	5 Yeos 00 Years Optional) the Waranty Period Depends the FnollnstolotionSite of ihverter,MoreInfo Please Refe to Waranty Policy
Grid Regulation	EC61727,IEC62116,CEI0-21,EN50549,NRS097,RD 140,UNE 217002,OVERichtirnie R25,G99,VDE-ARN4105
Safety/EMC Standard	IECEN 61000-6-1213/4,ECEN621091,ECEN62109-2

Application:

The HV Three-phase Hybrid Inverter is ideal for large residential, commercial, and industrial installations. It supports on-grid and off-grid operations, making it suitable for a wide range of applications where energy storage and management are critical. The system can manage up to 10 units in parallel for increased capacity and supports storing energy from diesel generators, providing a comprehensive power backup solution.

Shipping Methods

Supports global air and sea shipping.