



3600W 5000W 8000W LV Single Phase Hybrid Inverter 40-60V Battery IP65

Basic Information

- Place of Origin: China
- Brand Name: GK
- Certification: CEI 0-21 VDE-AR-N 4105 IEC 62109 IEC 61727 G99/G98
- Model Number: GKLSHI
- Minimum Order Quantity: 10 Units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



DOC-3.6 5kW 8kW

Product Specification

- Max Efficiency: 97.60%
- MPPT Efficiency: 99.90%
- Max Charging/Discharging Current: 190A
- Battery Voltage Range: 40-60V
- Protection Degree: IP65
- Rated AC Output Power: 3600W / 5000W / 8000W
- Highlight: **3600W Hybrid Inverters, 5000W Hybrid Inverters , 60V hybrid power solutions 8000w**

Product Description

LV Single-phase Hybrid Inverter with 97.6% Max Efficiency and 99.90% MPPT Efficiency

Product Description

This LV Single-phase Hybrid Inverter is designed to maximize energy efficiency for residential and small-scale commercial applications. Featuring a maximum efficiency of 97.6% and MPPT efficiency of 99.90%, this inverter ensures optimal energy conversion and management. With advanced protection features such as lightning protection, anti-islanding, and over-voltage protection, it guarantees safety and stability in operation. The system also supports grid regulation standards such as CEI 0-21, VDE-AR-N 4105, and more, making it compliant with international safety standards.

This inverter integrates a colorful touch LCD display and IP65 protection degree, making it suitable for wall-mounted installations in various environments. It also supports storing energy from a diesel generator and offers flexible charging/discharging schedules with six programmable periods.

Battery Input Data			
Bottery Type Lead-acid or Li-on			
Battery Voltage Range 40-60V			
Max.Charging Current	90A	120A	190A
Max.Discharging Current	90A	120A	190A
Number ofbattery input		Yes	
Charging Curve	3 Stages/Equalization		
Charging Strategy for LHon Battery	Self-adaption to BMS		
PV String input Data			
Max.DC Input Power	4680W	6500W	10400W
Roted PV Input Voltage 370(125~500)V			
Start-up Voltage 125V			
MPPT Voltage TRange	150-425V		
FullLoad DC Voltage Range	300-425V		200-425V
PV Input Current 13A+13A			26A+26A
Max.PVss 17A+17A			34A+34A
Number of MPPT/Strings per MPPT 2/1+1			2
AC Output Data			
Rated ACOuput and UPS Power 3600W	5000W		8000W
Max.AC Output Power 3690W	5500W		8800W
ACOutput Rated Current 16.4A	22.7A		36.4/34.8A
Max.AC Current 18A	25A		40/38.3A
Max.Continuous AC Passthrough 35A			50A
Peak Power (off grid) 2 time of rated power,10 S			
Power Factor 0.8 leading to 0.8 lagging			
Output Frequency and Voltage 50/60Hz;L/N/PE 220/230Vac(single phase)			
Grid Type Single Phase			
DC injection current(mA) THD<3%(Linear load<1.5%)			
Efficiency			
Mox Efficiency	97.60%		
EuroEfficiency	97.00%		
MPPT Efficiency	99.90%		
Protection			
Integrated	PV Input Lightning Protection,Anti-islanding Protection,PV String Input Reverse Polarity ProtectionInsulation Resistor Detection,Residual Current Monitoring Unit, Output Over CurrentProtection,Output Shorted Protection,Surge protection		
Output Over Voltage Protection DCType II/AC Type III			
Certifications and Standards			
GridRegulotion	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116,IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11		
Sofety EMC/Standard	EC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2		
General Data			
Operating Temperature Range(°C)	-45~60°C,>45°C derating		
Cooling	Natural cooling		
Noise(dB)	<30 dB		
Communication with BMS	RS485;CAN		
Weight	20.5kg/45lbs 32kg/71 lbs		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		

Application

This inverter is ideal for applications requiring seamless grid integration and backup energy solutions, such as residential homes and small businesses. It can retrofit existing solar systems with both DC and AC coupling options, allowing up to 16 units to be paralleled for on-grid and off-grid operations. Its compatibility with a range of batteries, including lead-acid and Li-Ion, makes it a versatile solution for energy management.

Shipping Methods

Supports global air and sea shipping.



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