

KSTAR

C&I System Solution

KSTAR Powering
the Future

Shenzhen KSTAR New Energy Technology Co.,Ltd

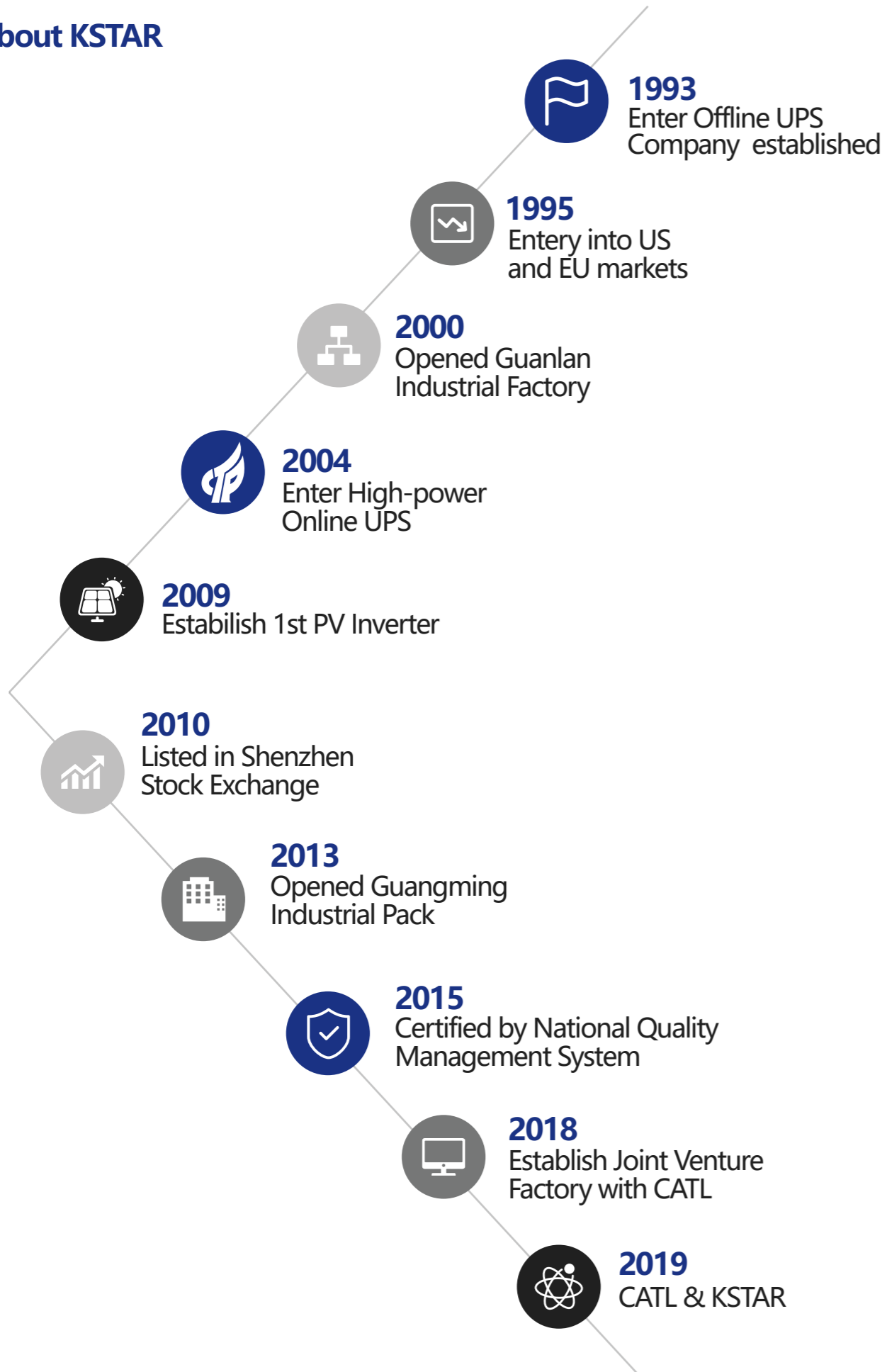
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About KSTAR



► TECHNOLOGY, INNOVATION AND THE HISTORICAL INDUSTRIAL EXPERIENCE OF KSTAR FROM TODAY AVAILABLE FOR EVERY HOME

Founded in 1993, KSTAR is committed to new energy solutions with more than 42GW installation worldwide. Today, we are becoming the leading manufacturer in power electronics and new energy products.

KSTAR is fully committed to the R&D and has been providing high-quality products with full service to over 180 countries and regions worldwide. KSTAR is dedicated to being a trusted partner for global energy revolution. Let's power the future together.

► Office and service center globally





KSG Series C&I Inverter 30-250KW



Higher Efficiency



DC/AC Ratio Up to 1.5



Convenient & Light



Type II SPD



LVRT/HVRT Ability

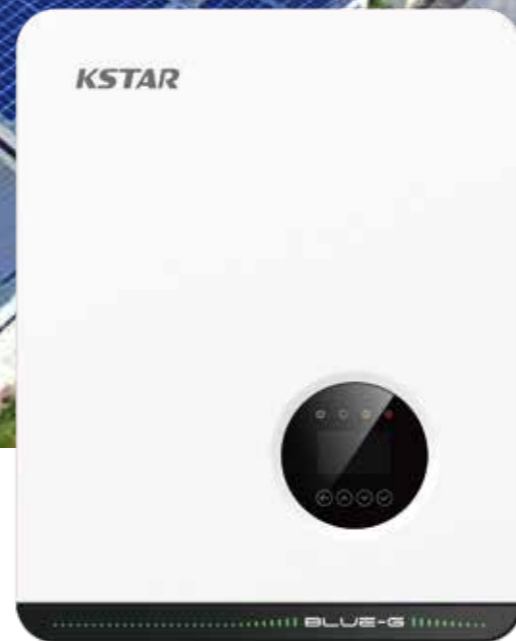


API / VPP Ready



KSG SERIES THREE PHASE

KSG-30KT-M1 / KSG-40KT-M1



PV On-Grid String Inverter



Max. PV Voltage up to 1100V
Type II DC SPD/ 3 MPPT



Compatible for Big Capacity PV Panel
WiFi / 4G Plug Optional



DC/AC Ratio up to 1.5
IP66 Protection



High Efficiency up to 98.7%
Smaller and Lighter

| MODEL | KSG-30KT-M1 | KSG-40KT-M1 |
|-------------------------------------|--|---------------|
| Input(DC) | | |
| Max. DC Voltage | 1100V | 1100V |
| Nominal Voltage | 620V | 620V |
| Start Voltage | 250V | 250V |
| MPPT Voltage Range | 200 V~1,000V | 200 V~1,000V |
| Number of MPPT | 3 | 3 |
| Strings Per MPPT | 2 | 2 |
| Max. Input Current Per MPPT | 30A | 30A |
| Max. Short-circuit Current Per MPPT | 40A | 40A |
| Output(AC) | | |
| Nominal AC Output Power | 30000W | 40000W |
| Maximum AC Output Power | 33000VA | 44000VA |
| Nominal AC Voltage | 400V 3L+N | |
| AC Grid Frequency Range | 50 / 60Hz(±5Hz) | |
| Max. Output Current | 47.8A | 63.8A |
| Power Factor(Φ) | 0.8leading-0.8lagging | |
| THDi | 3% | |
| Efficiency | | |
| Max. Efficiency | 98.7% | 98.7% |
| Euro Efficiency | 98.4% | 98.4% |
| Protection Devices | | |
| DC Switch | Yes | |
| Output Over Current Protection | Yes | |
| Anti-islanding Protection | Yes | |
| DC Reverse Polarity Protection | Yes | |
| String Fault Detection | Yes | |
| DC/AC Surge Protection | Type II / Type III(Type II Optional) | |
| Residual Current Monitoring | Yes | |
| AC Short Circuit Protection | Yes | |
| General Specifications | | |
| Dimensions W x H x D | 380x483x223mm | 380x483x227mm |
| Weight | 25.5kg | 32.5kg |
| Operating Temperature Range | -25°C~+60°C | |
| Cooling Type | Fan cooling | |
| Max. Operating Altitude | 4000m | |
| Max. Operating Humidity | 0-100%(No condensation) | |
| AC Output Terminal Type | OT terminal | |
| IP Class | IP66 | |
| Topology | Transformer-less | |
| Communication | RS485/Wifi/4G | |
| Display | LCD | |
| Certification & Standard | EN/IEC62109-1;EN/IEC62109-2;IEC/EN 61000-6-1;IEC/EN 61000-6-3;IEC/EN61000-6-2;IEC/EN61000-6-4;IEC61683; IEC60068;IEC60529;IEC62116;IEC61727;EN50549-1;NC RfG;NRS 097;VDE-AR-N-4105;VDE0126;CEI0-21;C10/C11 | |

* Specifications subject to change without prior notice.



KSG SERIES THREE PHASE

G50KT / G60KT / G70KT / G80KT

PV On-Grid String Inverter



Max. PV Voltage up to 1100V
Type II DC /AC SPD



Reactive Power Control
WiFi / 4G Plug Optional



DC/AC Ratio up to 1.5
IP66 Protection



High Efficiency up to 98.6%
Smaller and Lighter

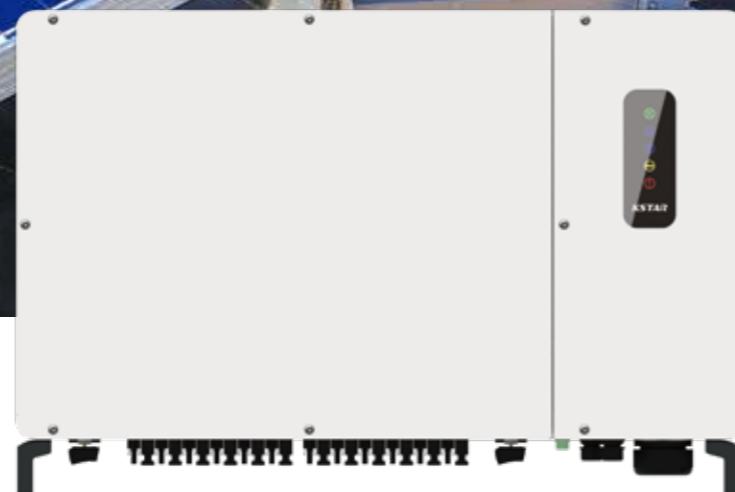
| MODEL | G50KT | G60KT | G70KT | G80KT |
|-------------------------------------|--|--------------|--------------|--------------|
| Input(DC) | | | | |
| Max. DC Voltage | 1100V | 1100V | 1100V | 1100V |
| Nominal Voltage | 650V | 650V | 650V | 650V |
| Start Voltage | 180V | 180V | 180V | 180V |
| MPPT Voltage Range | 200 V~1,000V | 200 V~1,000V | 200 V~1,000V | 200 V~1,000V |
| Number of MPPT | 4 | 4 | 4 | 4 |
| Strings Per MPPT | 2 | 2 | 3 | 3 |
| Max. Input Current Per MPPT | 32A | 32A | 45A | 45A |
| Max. Short-circuit Current Per MPPT | 48A | 48A | 60A | 60A |
| Output(AC) | | | | |
| Nominal AC Output Power | 50000W | 60000W | 70000W | 80000W |
| Max. AC Output Power | 55000VA | 66000VA | 77000VA | 88000VA |
| Nominal AC Voltage | 400V 3L+N+PE | | | |
| AC Grid Frequency Range | 50Hz / 60Hz(±5Hz) | | | |
| Maximum Output Current | 79.7A | 95.6A | 111.6A | 127.5A |
| Power Factor(Φ) | 0.8leading-0.8lagging | | | |
| THDi | 3% | | | |
| Efficiency | | | | |
| Max. Efficiency | 98.5% | 98.5% | 98.6% | 98.6% |
| Euro Efficiency | 98.2% | 98.2% | 98.3% | 98.3% |
| Protection Devices | | | | |
| DC Switch | Yes | | | |
| Output Over Current Protection | Yes | | | |
| Anti-islanding Protection | Yes | | | |
| DC Reverse Polarity Protection | Yes | | | |
| String Fault Detection | Yes | | | |
| DC/AC Surge Protection | Type II | | | |
| Residual Current Monitoring | Yes | | | |
| AC Short Circuit Protection | Yes | | | |
| General Specifications | | | | |
| Dimensions W x H x D | 515x585x287mm | | | |
| Weight | 51kg | | | 55kg |
| Operating Temperature Range | -25°C~+60°C | | | |
| Cooling Type | Fan Cooling | | | |
| Max. Operating Altitude | 4000m | | | |
| Max. Operating Humidity | 0-100%(No Condensation) | | | |
| AC Output Terminal Type | OT terminal | | | |
| IP Class | IP66 | | | |
| Topology | Transformer-less | | | |
| Communication | RS485/Wifi/4G | | | |
| Display | LCD | | | |
| Certification & Standard | EN/IEC62109-1;EN/IEC62109-2;IEC/EN 61000-6-1;IEC/EN 61000-6-3;IEC/EN61000-6-2;IEC/EN61000-6-4;IEC61683; IEC60068;IEC60529;IEC62116;IEC61727;EN50549-1;NC RfG;NRS 097;VDE-AR-N-4105;VDE0126;CEIO-21;C10/C11 | | | |

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KSG SERIES THREE PHASE

KSG-120CL-M0



PV On-Grid String Inverter



Max. PV Voltage up to 1100V
Type II DC /AC SPD



Compatible for Big Capacity PV Panel
WiFi / 4G Plug Optional



DC/AC Ratio up to 1.5
IP66 Protection



High Efficiency up to 98.7%
Reactive Power Control

| MODEL | KSG-120CL-M0 |
|-------------------------------------|--|
| Input(DC) | |
| Max. DC Voltage | 1100V |
| Nominal Voltage | 620V |
| Start Voltage | 250V |
| MPPT Voltage Range | 200 V~1,000V |
| Number of MPPT | 10 |
| Strings Per MPPT | 2 |
| Max. Input Current Per MPPT | 30A |
| Max. Short-circuit Current Per MPPT | 50A |
| Output(AC) | |
| Nominal AC Output Power | 120kW@30°C/110kW@40°C/100kW@50°C |
| Max. AC Output Power | 121kVA |
| Nominal AC Voltage | 400V 3W+N+PE |
| AC Grid Frequency Range | 50Hz / 60Hz(±5Hz) |
| Max. Output Current | 174.6A |
| Power Factor(Φ) | 0.8leading-0.8lagging |
| THDi | 3% |
| Efficiency | |
| Max. Efficiency | 98.7% |
| Euro Efficiency | 98.3% |
| Protection Devices | |
| DC Switch | Yes |
| Output Over Current Protection | Yes |
| Anti-islanding Protection | Yes |
| DC Reverse Polarity Protection | Yes |
| String Fault Detection | Yes |
| DC/AC Surge Protection | Type II |
| Residual Current Monitoring | Yes |
| AC Short Circuit Protection | Yes |
| General Specifications | |
| Dimensions W x H x D | 1055*700*336mm |
| Weight | 93kg |
| Operating Temperature Range | -25°C~+60°C |
| Cooling Type | Fan Cooling |
| Max. Operating Altitude | 4000m |
| Max. Operating Humidity | 0-100%(No Condensation) |
| AC Output Terminal Type | OT Terminal |
| IP Class | IP66 |
| Topology | Transformer-less |
| Communication | RS485/Wifi/4G |
| Display | LED/Bluetooth+APP |
| Certification & Standard | EN/IEC62109-1;EN/IEC62109-2;IEC/EN61000-6-2;IEC/EN61000-6-4;IEC/EN61000-3-11;IEC/EN61000-3-12;IEC61683;IEC60068;IEC60529;IEC62116;IEC61727;EN50549-1;EN50549-2 |

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KSG SERIES THREE PHASE


KSG-250UH-M0



PV On-Grid String Inverter

 1500Vdc, 800Vac
Smart I-V Curve Function

 12 MPPT, 24 PV Strings Input
DC and AC Type II SPD

 Optional AFCI Function
Reactive Power Control

 PLC Communication
Max. DC/AC Ratio up to 1.5

| MODEL | KSG-250UH-M0 |
|-------------------------------------|--|
| Input(DC) | |
| Max. DC Voltage | 1500V |
| Nominal Voltage | 1080V |
| Start Voltage | 650V |
| MPPT Voltage Range | 500V-1500V |
| Number of MPPT | 12 |
| Strings Per MPPT | 2 |
| Max. Input Current Per MPPT | 30A |
| Max. Short-circuit Current Per MPPT | 50A |
| Output(AC) | |
| Nominal AC Output Power | 250KW 30°C / 225KW 40°C / 200KW 50°C |
| Max. AC Apparent Power | 250kVA |
| Nominal AC Voltage | 800V 3W+PE |
| AC Grid Frequency Range | 50/60Hz±5Hz |
| Max. Output Current | 180.4A |
| Power Factor (cos Φ) | 0.8leading-0.8lagging |
| THDi | <3% |
| Efficiency | |
| Max. Efficiency | 99.00% |
| Euro Efficiency | 98.7% |
| Protection Devices | |
| DC Switch | Yes |
| Anti-islanding Protection | Yes |
| Output Over Current Protection | Yes |
| DC Reverse Polarity Protection | Yes |
| String Fault Detection | Yes |
| DC/AC Surge Protection | Type II |
| DC Insulation Resistance Detection | Yes |
| Residual Current Monitoring | Yes |
| AC Short-circuit Protection | Yes |
| General Specifications | |
| Dimensions W x H x D (mm) | 1055*700*336 |
| Weight(kg) | 110 |
| Operating Temperature Range | -25°C ~ +60°C |
| Cooling Type | Fan cooling |
| Max. Operating Altitude | 4000m |
| Max. Operating Humidity | 0~100%(No Condensation) |
| AC Output Terminal Type | OT Terminal |
| IP Class | IP66 |
| Topology | Transformer-less |
| Communication | RS485/Wifi/4G/PLC |
| Display | LED/Bluetooth+APP |
| Certification & Standard | EN/IEC62109-1;EN/IEC62109-2;IEC/EN61000-6-2;IEC/EN61000-6-4;IEC/EN61000-3-11;IEC/EN61000-3-12;IEC61683;IEC60068;IEC60529;IEC62116;IEC61727;EN50549-1;EN50549-2 |

*Specifications subject to change without prior notice.

KAC50DP-BC100DE

50kW/100kWh outdoor All-in-one ESS cabinet

Safe&Reliable

- CATL LFP battery cell
- Double fire suppression system design
- 1+1 redundancy design

Simple&User-friendly

- Pre-installed in factory for easy installation on site
- Integrated BMS/EMS, suitable for various applications
- Effortless operation, cloud control

Economical&Efficient

- Save Capex, expanding as required
- Efficient and energy-saving HVAC design



Outdoor Battery Cabinet Parameters

| Technical Parameters | | General Parameters | |
|-------------------------|-----------|-------------------------|-------------------------------------|
| Battery Type | LFP | Dimensions(WxDxH) | 1100 x 1100 x2380 mm |
| Battery Module Capacity | 5.12kWh | Weight | <1.5T |
| Number of Modules | 10*2 | Installation site | Outdoor |
| Total Battery Capacity | 102.4kWh | IP protection | IP54 |
| Nominal Voltage | 512V | Anti corrosion level | C4 |
| Operating Voltage Range | 448V~565V | Operation humidity | 5%~95% (No condensing) |
| Charge/Discharge Rate | Max. 0.5C | Operation temperature | -30°C~+50°C |
| DoD | 90% | Max. operation altitude | 4000m (>3000m derating) |
| | | Communication port | Ethernet;CAN |
| | | Communication protocol | CAN;MODBUS TCP/IP |
| | | Cooling method | Air conditioner |
| | | Standards | IEC62619-2017;UN38.3;IEC61000-6-2/4 |

| Product Specifications | KAC50DP |
|---|--|
| PV Side | |
| Max. Input Voltage | 1000V |
| MPPT Voltage Range | 350V~800V |
| Max. Current per MPPT | 36A |
| Number of MPPT | 3 |
| Number of Inputs Per MPPT | 2 |
| Battery Side | |
| Max. Input Voltage | 750V |
| Min. Input Voltage | 350V |
| DC Voltage at Nominal Operation | 500V~750V |
| Max. DC Current | 55A*2 |
| Max. DC Input Power | 55kW |
| Number of DC Inputs | 2 |
| AC Side(On Grid) | |
| Nominal AC Output Power | 50kW |
| Max. AC Output Power | 55kVA |
| Max. AC Current | 80A |
| Nominal AC Voltage | 400V |
| AC Voltage Range | 340V~440V |
| Nominal Grid Frequency/Frequency Range | 50/60Hz±5Hz |
| THDv | <3%(100% Load) |
| Adjustable PF Range | -1(Lagging)~1(Leading) |
| AC Side(Off Grid) | |
| Nominal AC Voltage | 230/400V±3%; 3L+N+PE |
| THDv | <3%(Linear Load) |
| Nominal Grid Frequency/Frequency Range | 50/60Hz |
| Nominal AC Output Power | 50kW |
| Max. AC Output Power | 55kVA |
| Efficiency | |
| Max. Efficiency | 97.5% |
| Protection | |
| Reverse Connection Protection | Yes |
| DC Switch | Yes |
| Over-Temperature Protection | Yes |
| Grid Monitoring/ Earthing Fault Detection | Yes |
| Insulation Monitoring | Yes |
| DC/AC Surge Protection | DC Type II;AC Type III |
| General Parameters | |
| Dimensions(WxHxD) | 650*715*325mm |
| Weight | 75KG |
| Topology | Transformerless |
| IP Protection | IP65 |
| Operation Temperature Range | -25~60°C(>45°C Derating) |
| Operation Humidity Range | 0~100%(No Condensing) |
| Cooling Method | Intelligent Air Cooling |
| Max. Operation Altitude | 3000m |
| Communication Port | RS485/CAN |
| Standards | IEC62477;IEC61000;CE;GB/T;IEC62109;IEC61683;IEC60068;IEC61727;IEC62116;EN50549;VDE4105;G99 |

