

KSTAR

C&I System Solution

KSTAR Powering
The Future

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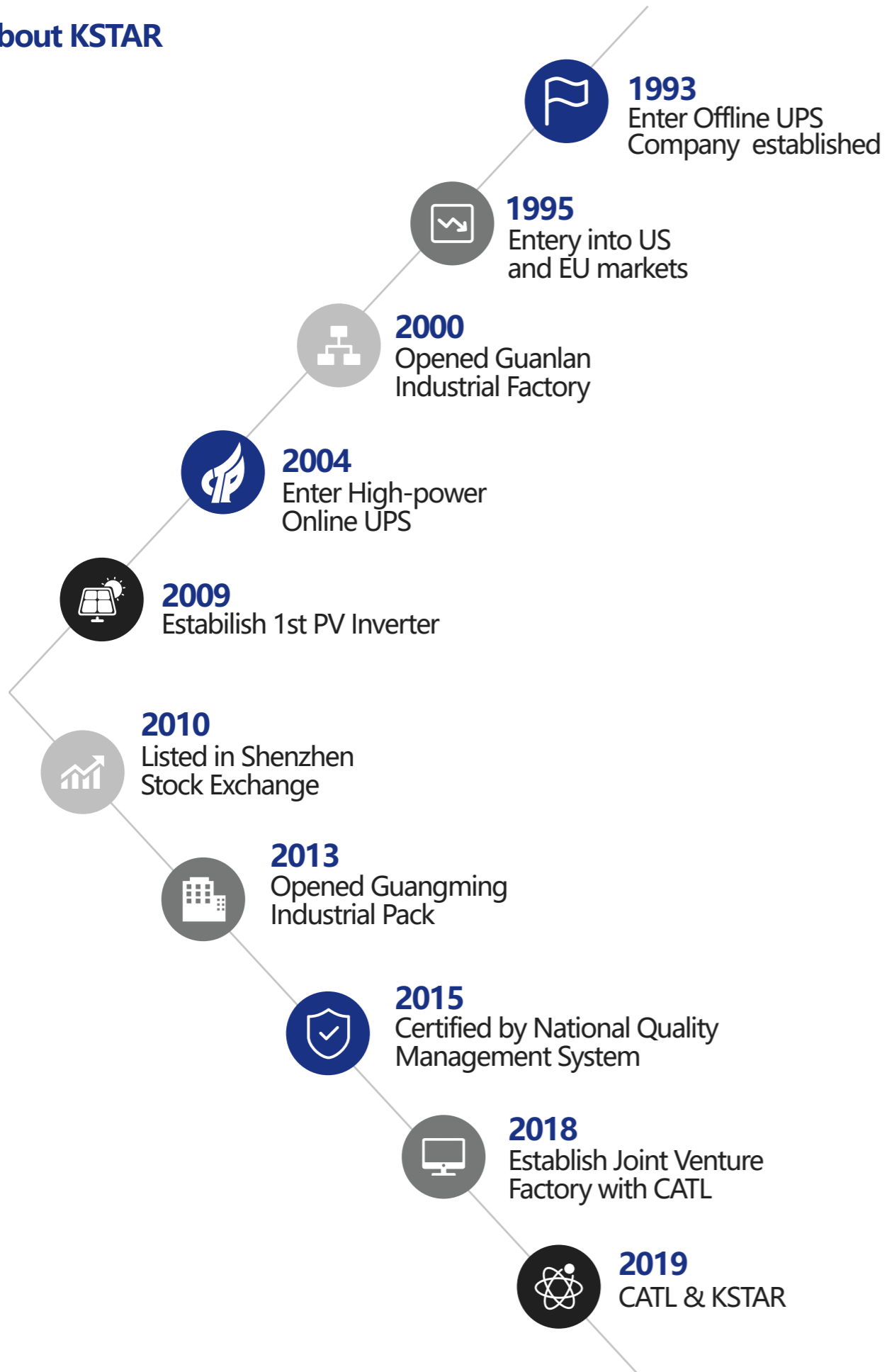
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www.kstar.com

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

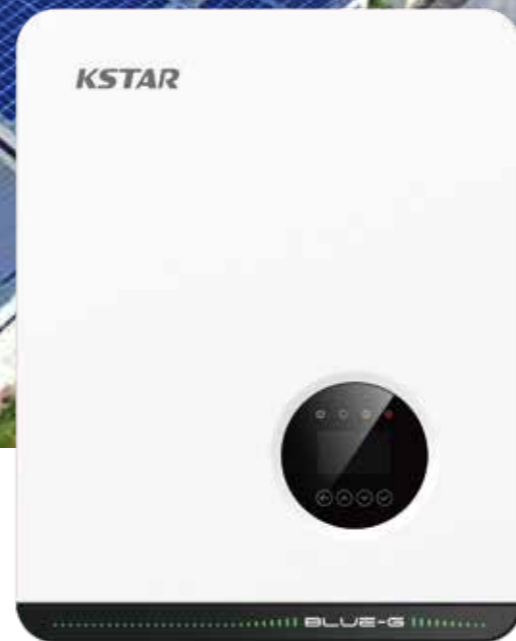


API / VPP Ready



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

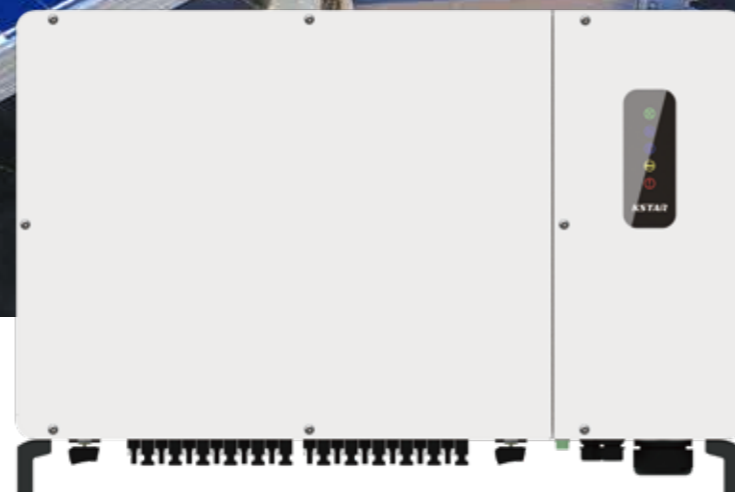
MODEL	G50KT	G60KT	G70KT	G80KT
Input(DC)				
Max. DC Voltage	1100V	1100V	1100V	1100V
Nominal Voltage	650V	650V	650V	650V
Start Voltage	180V	180V	180V	180V
MPPT Voltage Range	200 V~1,000V	200 V~1,000V	200 V~1,000V	200 V~1,000V
Number of MPPT	4	4	4	4
Strings Per MPPT	2	2	3	3
Max. Input Current Per MPPT	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

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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