CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

Shenzhen KSTAR New Energy Company Limited

The 9th floor, R&D building, KSTAR Industrial Park Guangming Hi-Tech Industrial Zone, Shenzhen 518107, Guangdong Province, P.R. China

comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product(s):	**Grid-Connected PV Inverter**
Model type(s):	**G80KT, G80KT1, G75KT, G75KT1, G70KT, G70KT1, G60KT, G60KT1, G50KT, G50KT1, G40KT, G40KT1, G40KT2, G40KT3**

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification program:	P33-VA-01 Rev. 02 / 04.20
Certification fundamental(s):	EN 62109-1:2010, EN 62109-2:2011
Registered no.:	44 799 23 406749 - 051
Report no.:	492012326.001
File no.:	PVP01057/23B-01

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Please also pay attention to the information stated overleaf.

CE The CE marking may be affixed on the product if all relevant and effective Directives are complied with. CE

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Description of product(s):

Model type ..... :	**G80KT**		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	60*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.]..... :	45*4	String of each MPPT ..... :	3/3/3/3
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] .... :	80	Max. apparent power [Kva a.c.]... :	88
Max. output current [A a.c.]..... :	127.5	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	**G80KT1**		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	60*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.]..... :	45*4	String of each MPPT ..... :	2/2/2/2
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] ..... :	80	Max. apparent power[kVA a.c.] ... :	88
Max. output current [A a.c.]..... :	127.5	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	**G75KT**		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	60*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.]..... :	45*4	String of each MPPT ..... :	3/3/3/3
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] ..... :	75	Max. apparent power[kVA a.c.] ... :	82.5
Max. output current [A a.c.]..... :	125	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	**G75KT1**		
General information			
Type of inverter ..... :	Non-Isolated	Separated by .....:	-
Safety class..... :	Class I	IP grade .....:	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree.....:	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD .....:	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.].....:	60*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking .....:	4
Max. input current [A d.c.]..... :	45*4	String of each MPPT .....:	2/2/2/2
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz].....:	50/60
Rated output power [kW a.c.] ..... :	75	Max. apparent power[kVA a.c.] ...:	82.5
Max. output current [A a.c.]..... :	125	Power factor .....:	[-0.8, 0.8]

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Model type ..... :	**G70KT**		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class ..... :	Class I	IP grade ..... :	IP66
Over-voltage category ..... :	PV Input: II AC Output: III	Pollution degree ..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.] ..... :	1100	Isc [V d.c.] ..... :	60*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.] ..... :	45*4	String of each MPPT ..... :	3/3/3/3
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz] ..... :	50/60
Rated output power [kW a.c.] ..... :	70	Max. apparent power[kVA a.c.] ... :	77
Max. output current [A a.c.] ..... :	116.7	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	G70KT1		
General information			
Type of inverter ..... :	Non-Isolated	Separated by .....:	-
Safety class..... :	Class I	IP grade .....:	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree.....:	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD .....:	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.].....:	60*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking .....:	4
Max. input current [A d.c.]..... :	45*4	String of each MPPT .....:	2/2/2/2
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz].....:	50/60
Rated output power [kW a.c.] ..... :	70	Max. apparent power[kVA a.c.] ...:	77
Max. output current [A a.c.]..... :	116.7	Power factor .....:	[-0.8, 08]

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Model type ..... :	G60KT		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	48*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.]..... :	32*4	String of each MPPT ..... :	2/2/2/2
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] ..... :	60	Max. apparent power[kVA a.c.] ...:	66
Max. output current [A a.c.]..... :	100.0	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	G60KT1		
General information			
Type of inverter ..... :	Non-Isolated	Separated by .....:	-
Safety class..... :	Class I	IP grade .....:	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree.....:	External PD3 Internal PD2
Firmware of control board..... :	9.9.00	Firmware of LCD .....:	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.].....:	60*60*30*30
MPP voltage range [V d.c.]..... :	200-1000	Number of MPPT tracking .....:	4
Max. input current [A d.c.]..... :	40*40*20*20	String of each MPPT .....:	2/2/1/1
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz].....:	50/60
Rated output power [kW a.c.] ..... :	60	Max. apparent power[kVA a.c.] ...:	66
Max. output current [A a.c.]..... :	100.0	Power factor .....:	[-0.8, 0.8]

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Model type ..... :	G50KT		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	48*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.]..... :	32*4	String of each MPPT ..... :	2/2/2/2
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] ..... :	50	Max. apparent power[kVA a.c.] ...:	55
Max. output current [A a.c.]..... :	83.3	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	G50KT1		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class ..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	60*30*30*30
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.]..... :	40*20*20*20	String of each MPPT ..... :	2/1/1/1
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] ..... :	50	Max. apparent power[kVA a.c.] ...:	55
Max. output current [A a.c.]..... :	83.3	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	G40KT		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	48*3
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	3
Max. input current [A d.c.]..... :	32*3	String of each MPPT ..... :	2/2/2
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] ..... :	40	Max. apparent power[kVA a.c.] ...:	44
Max. output current [A a.c.]..... :	66.7	Power factor ..... :	[-0.8, 0.8]

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Model type ..... :	G40KT1		
General information			
Type of inverter ..... :	Non-Isolated	Separated by .....:	-
Safety class..... :	Class I	IP grade .....:	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree.....:	External PD3 Internal PD2
Firmware of control board..... :	9.9.00	Firmware of LCD .....:	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.].....:	60*30*30
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking .....:	3
Max. input current [A d.c.]..... :	40*20*20	String of each MPPT .....:	2/1/1
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz].....:	50/60
Rated output power [kW a.c.] ..... :	40	Max. apparent power[kVA a.c.] ...:	44
Max. output current [A a.c.]..... :	66.7	Power factor .....:	[-0.8, 0.8]

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Model type ..... :	G40KT2		
General information			
Type of inverter ..... :	Non-Isolated	Separated by .....:	-
Safety class..... :	Class I	IP grade .....:	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree.....:	External PD3 Internal PD2
Firmware of control board..... :	9.9.00	Firmware of LCD .....:	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.].....:	48*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking .....:	4
Max. input current [A d.c.]..... :	32*4	String of each MPPT .....:	2/2/2/2
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz].....:	50/60
Rated output power [kW a.c.] ..... :	40	Max. apparent power[kVA a.c.] ...:	44
Max. output current [A a.c.]..... :	66.7	Power factor .....:	[-0.8, 0.8]

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Model type ..... :	G40KT3		
General information			
Type of inverter ..... :	Non-Isolated	Separated by ..... :	-
Safety class..... :	Class I	IP grade ..... :	IP66
Over-voltage category..... :	PV Input: II AC Output: III	Pollution degree..... :	External PD3 Internal PD2
Firmware of control board ..... :	9.9.00	Firmware of LCD ..... :	0.0.02
PV input			
Vmax [V d.c.]..... :	1100	Isc [V d.c.]..... :	30*4
MPP voltage range [V d.c.] ..... :	200-1000	Number of MPPT tracking ..... :	4
Max. input current [A d.c.]..... :	20*4	String of each MPPT ..... :	1/1/1/1
AC output			
Rated output voltage [V a.c.] ..... :	380/400, 3P+PE(+N)	Rated output frequency [Hz]..... :	50/60
Rated output power [kW a.c.] ..... :	40	Max. apparent power[kVA a.c.] ...:	44
Max. output current [A a.c.]..... :	66.7	Power factor ..... :	[-0.8, 0.8]

Remark:
For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.

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