



Product Service

Compliance Document

No. D 075386 0176 Rev. 00

Holder of Certificate: **Shenzhen Kstar New Energy Company Limited**
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PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Photovoltaic grid-connected inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290223011801

Date, 2022-07-14

(Billy Qiu)

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Model(s):

KSG-100CL, KSG-100CL-M0, KSG-100CL-M1,
KSG-100CL-M2, KSG-100CL-M3, KSG-110CL,
KSG-110CL-M0, KSG-110CL-M1, KSG-110CL-M2,
KSG-110CL-M3, KSG-120CL, KSG-120CL-M0,
KSG-120CL-M1, KSG-120CL-M2, KSG-120CL-M3

Parameters:

Model	KSG-100CL	KSG-100CL-M0	KSG-100CL-M1	KSG-100CL-M2	KSG-100CL-M3
PV input rating					
Max. input voltage	1100V				
Max. input current per MPPT	26Ad.c.	30Ad.c.	36Ad.c.	40Ad.c.	40Ad.c.
PV short circuit current per MPPT	40Ad.c.	50Ad.c.	60Ad.c.	60Ad.c.	60Ad.c.
MPPT voltage range	180-1000Vd.c.				
MPPT voltage range (full load)	550-850Vd.c.				
Rated input voltage	620Vd.c.				
MPPT number	9	9	9	9	6
String number per MPPT	2				
Grid output rating					
Rated output active power	100kW				
Max. output apparent power	110kVA				
Max. active power	110kW				
Rated output voltage	3W+PE+N, 230/400 Va.c.				
Rated output frequency	50Hz				
Rated output current	144.9Aa.c.				
Max. output current	160.4Aa.c.				
Power factor	0.8 leading ~ 0.8 lagging				

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Model	KSG-110CL	KSG-110CL-M0	KSG-110CL-M1	KSG-110CL-M2	KSG-110CL-M3
PV input rating					
Max. input voltage	1100Vd.c.				
Max. input current per MPPT	26Ad.c.	30Ad.c.	36Ad.c.	40Ad.c.	40Ad.c.
PV short circuit current per MPPT	40Ad.c.	50Ad.c.	60Ad.c.	60Ad.c.	60Ad.c.
MPPT voltage range	180-1000Vd.c.				
MPPT voltage range (full load)	550-850Vd.c.				
Rated input voltage	620Vd.c.				
MPPT number	10	10	10	10	7
String number per MPPT	2				
Grid output rating					
Rated output active power	110kW				
Max. output apparent power	121kVA				
Max. active power	121kW				
Rated output voltage	3W+PE+N, 230/400 Va.c.				
Rated output frequency	50Hz				
Rated output current	159.4Aa.c.				
Max. output current	174.6Aa.c.				
Power factor	0.8 leading ~ 0.8 lagging				

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Model	KSG-120CL	KSG-120CL-M0	KSG-120CL-M1	KSG-120CL-M2	KSG-120CL-M3
PV input rating					
Max. input voltage	1100Vd.c.				
Max. input current per MPPT	26Ad.c.	30Ad.c.	36Ad.c.	40Ad.c.	40Ad.c.
PV short circuit current per MPPT	40Ad.c.	50Ad.c.	60Ad.c.	60Ad.c.	60Ad.c.
MPPT voltage range	180-1000Vd.c.				
MPPT voltage range (full load)	550-850Vd.c.				
Rated input voltage	620Vd.c.				
MPPT number	10	10	10	10	7
String number per MPPT	2				
Grid output rating					
Rated output active power	120kW				
Max. output apparent power	121kVA				
Max. active power	121kW				
Rated output voltage	3W+PE+N, 230/400 Va.c.				
Rated output frequency	50Hz				
Rated output current	159.4Aa.c.				
Max. output current	174.6Aa.c.				
Power factor	0.8 leading ~ 0.8 lagging				

Remark:

License condition:

- (1) The grid connection protection system is evaluated according to DIN V VDE V 0126-1-1:2013, specially with consideration of "Enedis-FOR-RES_18E - Information Collection Cards for a Connection Proposal before the file is complete and for a Connection Offer, to the Public Distribution Network managed by Enedis, of a Photovoltaic Production Installation with power greater than 36 kVA (Version 18)". The setting of the integrated protection system of DIN VDE 0126-1-1/A1 VFR 2019 is as follows:
 Over voltage (stage 1: 10 min. mean value): 1.10 Un;
 Over voltage for phase voltage and line voltage (stage 2): 1.15 Un;
 Under voltage for phase voltage and line voltage: 0.80 Un;
 Over frequency: 51.5 Hz;
 Under frequency: 47.5 Hz.
- (2) The installation of this PV grid-interactive inverter in the PV plant shall further comply with "Guide Pratique UTE C 15-712-1:2013, Installations photovoltaïques sans stockage et raccordées au réseaupublic de distribution.



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**Tested
according to:**

DIN VDE 0126-1-1:2013 (with national deviation of France: DIN
VDE 0126-1-1 VFR 2019)