

# Certificate of Conformity

No. ESY 075386 0202 Rev. 00

**Holder of Certificate:** **Shenzhen Kstar New Energy Company Limited**  
The 9th Floor, R&D Building  
Kstar Industrial Park, Guangming Hi-tech Industrial Zone  
518107 Shenzhen, Guangdong Province  
PEOPLE'S REPUBLIC OF CHINA

**Product:** **Converter  
(Solar inverter)**

**Model(s):** **KSG-25KT-M0, KSG-25KT-M1, KSG-25KT-M2,  
KSG-25KT-M3, KSG-30KT-M0, KSG-30KT-M1,  
KSG-30KT-M2, KSG-30KT-M3, KSG-30KT-M4,  
KSG-30KT-M5, KSG-33KT-M0, KSG-33KT-M1,  
KSG-33KT-M2, KSG-33KT-M3, KSG-33KT-M4,  
KSG-33KT-M5, KSG-36KT-M0, KSG-36KT-M1,  
KSG-36KT-M2, KSG-36KT-M3, KSG-36KT-M4,  
KSG-36KT-M5, KSG-40KT-M0, KSG-40KT-M1,  
KSG-40KT-M0, KSG-40KT-M1, KSG-40KT-M2,  
KSG-40KT-M3, KSG-40KT-M4, KSG-40KT-M5**


**Parameters:** See page 3-8

**Applicable standards:** NTS V2.1:2021-07

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290223189101

**Date,** 2023-03-13



( Billy Qiu )

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Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed below:

Type of PGM to be installed	Photovoltaic, Type A
Test requirement	The certification complies with the requirements of the following documents:  Technical standard for monitoring the compliance of power generating modules according to EU Regulation 2016/631. Version 2.1 (2021-07-09) + correction of errors of Version 2.1 (2021-10-08)
Manufacturer	Shenzhen KSTAR Science & Technology Co., Ltd. Guangming Branch Kstar High Tech Park, Guangming High Technology Town, Gongming Street, Baoan District, Shenzhen City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA
Model and Technical Data	See page 3 to 8
Software version	Inverter: DSP: 1.1; ARM: 1.2

## Scope of assessment and results

Clause of NTS V2.1	Requirement	Type A	Assessment	
			Type	Result
5.1.	Power-frequency limited overfrequency regulation mode (MRPFL-O)	Yes	Test	Pass



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Model	KSG-30KT-M1	KSG-30KT-M2	KSG-30KT-M3	KSG-30KT-M4	KSG-30KT-M5
PV terminal parameters					
Max. Input voltage	1100 Vd.c.				
Max. Current MPPT	3*30 Ad.c.	36 Ad.c./ 18 Ad.c.	40 Ad.c./ 40 Ad.c./ 20 Ad.c.	2*40 Ad.c.	39 Ad.c./ 39 Ad.c./ 26 Ad.c.
Max. Short Circuit Current MPPT	3*40 Ad.c.	60 Ad.c./ 30 Ad.c.	60 Ad.c./ 60 Ad.c./ 30 Ad.c.	2*60 Ad.c.	60 Ad.c./ 60 Ad.c./ 40 Ad.c.
Max. Number of Inputs	6	3	5	4	8
Number of MPPT	3	2	3	2	3
Max. Number of Strings Per MPPT	2	2/1	2/2/1	2	3/3/2
Start Voltage	180 Vd.c.				
MPPT Operating Voltage Range	200-1000 Vd.c.				
Full Load MPPT Voltage Range	480-850 Vd.c.				
Rated Input Voltage	650 Vd.c.				
Grid terminal parameters					
Rated AC Active Power	30000 W	30000 W	30000 W	30000 W	30000 W
Max. AC Apparent Power	33000 VA	33000 VA	33000 VA	33000 VA	33000 VA
Max. AC Active Power (cosφ=1)	33000 W	33000 W	33000 W	33000 W	33000 W
Rated Output Voltage	230/400 Va.c., 3W+N+PE				
Rated AC Grid Frequency	50 Hz				
Rated Output Current	43.5 Aa.c.	43.5 Aa.c.	43.5 Aa.c.	43.5 Aa.c.	43.5 Aa.c.
Max. Output Current	47.8 Aa.c.	47.8 Aa.c.	47.8 Aa.c.	47.8 Aa.c.	47.8 Aa.c.
Adjustable Power Factor Range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				

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Model	KSG-33KT-M0	KSG-33KT-M1	KSG-33KT-M2	KSG-33KT-M3	KSG-33KT-M4
PV terminal parameters					
Max. Input voltage	1100 Vd.c.				
Max. Current MPPT	3*26 Ad.c.	3*30 Ad.c.	2*36 Ad.c.	40 Ad.c./ 40 Ad.c./ 20 Ad.c.	2*40 Ad.c.
Max. Short Circuit Current MPPT	3*40 Ad.c.	3*40 Ad.c.	2*60 Ad.c.	60 Ad.c./ 60 Ad.c./ 30 Ad.c.	2*60 Ad.c.
Max. Number of Inputs	6	6	4	5	4
Number of MPPT	3	3	2	3	2
Max. Number of Strings Per MPPT	2	2	2	2/2/1	2
Start Voltage	180 Vd.c.				
MPPT Operating Voltage Range	200-1000 Vd.c.				
Full Load MPPT Voltage Range	550-850 Vd.c.				
Rated Input Voltage	650 Vd.c.				
Grid terminal parameters					
Rated AC Active Power	33000 W	33000 W	33000 W	33000 W	33000 W
Max. AC Apparent Power	36300 VA	36300 VA	36300 VA	36300 VA	36300 VA
Max. AC Active Power (cosφ=1)	36300 W	36300 W	36300 W	36300 W	36300 W
Rated Output Voltage	230/400 Va.c., 3W+N+PE				
Rated AC Grid Frequency	50 Hz				
Rated Output Current	47.8 Aa.c.	47.8 Aa.c.	47.8 Aa.c.	47.8 Aa.c.	47.8 Aa.c.
Max. Output Current	52.6 Aa.c.	52.6 Aa.c.	52.6 Aa.c.	52.6 Aa.c.	52.6 Aa.c.
Adjustable Power Factor Range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				

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Model	KSG-33KT-M5	KSG-36KT-M0	KSG-36KT-M1	KSG-36KT-M2	KSG-36KT-M3
PV terminal parameters					
Max. Input voltage	1100 Vd.c.				
Max. Current MPPT	39 Ad.c./ 39 Ad.c./ 26 Ad.c.	3*26 Ad.c.	3*30 Ad.c.	2*36 Ad.c.	40 Ad.c./ 40 Ad.c./ 20 Ad.c.
Max. Short Circuit Current MPPT	60 Ad.c./ 60/40 Ad.c.	3*40 Ad.c.	3*40 Ad.c.	2*60 Ad.c.	60 Ad.c./ 60 Ad.c./ 30 Ad.c.
Max. Number of Inputs	8	6	6	4	5
Number of MPPT	3	3	3	2	3
Max. Number of Strings Per MPPT	3/3/2	2	2	2	2/2/1
Start Voltage	180 Vd.c.				
MPPT Operating Voltage Range	200-1000 Vd.c.				
Full Load MPPT Voltage Range	480-850 Vd.c.	550-850 Vd.c.			
Rated Input Voltage	650 Vd.c.				
Grid terminal parameters					
Rated AC Active Power	33000 W	36000 W	36000 W	36000 W	36000 W
Max. AC Apparent Power	36300 VA	39600 VA	39600 VA	39600 VA	39600 VA
Max. AC Active Power (cosφ=1)	36300 W	39600 W	39600 W	39600 W	39600 W
Rated Output Voltage	230/400 Va.c., 3W+N+PE				
Rated AC Grid Frequency	50 Hz				
Rated Output Current	47.8 Aa.c.	52.2 Aa.c.	52.2 Aa.c.	52.2 Aa.c.	52.2 Aa.c.
Max. Output Current	52.6 Aa.c.	57.3 Aa.c.	57.3 Aa.c.	57.3 Aa.c.	57.3 Aa.c.
Adjustable Power Factor Range	0.8 inductive(under-excited) to 0.8 capacitive(over- excited)				

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Model	KSG-36KT-M4	KSG-36KT-M5	KSG-40KT-M0	KSG-40KT-M1	KSG-40KT-M2
PV terminal parameters					
Max. Input voltage	1100 Vd.c.				
Max. Current MPPT	2*40 Ad.c.	39 Ad.c./ 39 Ad.c./ 26 Ad.c.	3*26 Ad.c.	3*30 Ad.c.	2*36 Ad.c.
Max. Short Circuit Current MPPT	2*60 Ad.c.	60 Ad.c./ 60 Ad.c./ 40 Ad.c.	3*40 Ad.c.	3*40 Ad.c.	2*60 Ad.c.
Max. Number of Inputs	4	8	6	6	4
Number of MPPT	2	3	3	3	2
Max. Number of Strings Per MPPT	2	3/3/2	2	2	2
Start Voltage	180 Vd.c.				
MPPT Operating Voltage Range	200-1000 Vd.c.				
Full Load MPPT Voltage Range	550-850 Vd.c.				
Rated Input Voltage	650 Vd.c.				
Grid terminal parameters					
Rated AC Active Power	36000 W	36000 W	40000 W	40000 W	40000 W
Max. AC Apparent Power	39600 VA	39600 VA	44000 VA	44000 VA	44000 VA
Max. AC Active Power (cosφ=1)	39600 W	39600 W	44000 W	44000 W	44000 W
Rated Output Voltage	230/400 Va.c., 3W+N+PE				
Rated AC Grid Frequency	50 Hz				
Rated Output Current	52.2 Aa.c.	52.2 Aa.c.	58.0 Aa.c.	58.0 Aa.c.	58.0 Aa.c.
Max. Output Current	57.3 Aa.c.	57.3 Aa.c.	63.8 Aa.c.	63.8 Aa.c.	63.8 Aa.c.
Adjustable Power Factor Range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				

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No. ESY 075386 0202 Rev. 00

Model	KSG-40KT-M3	KSG-40KT-M4	KSG-40KT-M5
PV terminal parameters			
Max. Input voltage	1100 Vd.c.		
Max. Current per MPPT	40 Ad.c./ 40 Ad.c./ 20 Ad.c.	2*40 Ad.c.	39 Ad.c./ 39 Ad.c./ 26 Ad.c.
Max. Short Circuit Current per MPPT	60 Ad.c./60 Ad.c./ 30 Ad.c.	2*60 Ad.c.	60 Ad.c./ 60 Ad.c./ 40 Ad.c.
Max. Number of Inputs	5	4	8
Number of MPPT	3	2	3
Max. Number of Strings Per MPPT	2/2/1	2	3/3/2
Start Voltage	180 Vd.c.		
MPPT Operating Voltage Range	200-1000 Vd.c.		
Full Load MPPT Voltage Range	550-850 Vd.c.		
Rated Input Voltage	650 Vd.c.		
Grid terminal parameters			
Rated AC Active Power	40000 W	40000 W	40000 W
Max. AC Apparent Power	44000 VA	44000 VA	44000 VA
Max. AC Active Power (cosφ=1)	44000 W	44000 W	44000 W
Rated Output Voltage	230/400 Va.c., 3W+N+PE		
Rated AC Grid Frequency	50 Hz		
Rated Output Current	58.0 Aa.c.	58.0 Aa.c.	58.0 Aa.c.
Max. Output Current	63.8 Aa.c.	63.8 Aa.c.	63.8 Aa.c.
Adjustable Power Factor Range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		