

# Certificate of Conformity

No. ESY 075386 0210 Rev. 01

**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  
(Hybrid Inverter)**

**Model(s): E8KT, E10KT, E12KT**

**Parameters:** See page 3-6

**Applicable standards:** UNE 217001:2020  
RD 244:2019

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.:** 64290233034802

**Date,** 2023-11-28



( Billy Qiu )

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

Test requirement	The certification complies with the requirements of the following documents:  <b>UNE 217001:2020</b> , Tests for systems that avoid energy discharge to the distribution network.  <b>Royal Decree 244:2019</b> , of April 5, which regulates the administrative, technical and economic conditions of self-consumption of electrical energy.
Manufacturer	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 types used in power generation system	Inverter: Three-phase inverter Network analyzer/ Current transformer
Model and Technical Data	See page 3-6
Software version	Inverter: ARM: V1.0.0, DSP: V1.0.0. Network analyzer: 1.27
Test Report	64.290.23.30348.02
Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Accreditation No.	D-PL-19065-01-00
Accreditation body ref.	DAkkS
Reference of the certification body	
Certification Body	TÜV SÜD Product Service GmbH  DAkkS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013

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## Inverter Parameters:

Model:	E8KT	E10KT	E12KT
<b>PV input parameter</b>			
Maximum input voltage	1100 Vd.c.		
MPPT voltage range	140~1000 Vd.c.		
MPPT voltage range (full load)	380~850 Vd.c.	420~850 Vd.c.	480~850 Vd.c.
Maximum input current	2*15 Ad.c.		
PV I <sub>sc</sub>	2*20 Ad.c.		
<b>Battery input/output parameter</b>			
Battery type	Lithium or lead-acid		
Input voltage range	44~58 Vd.c.		
Maximum input/output voltage	58 Vd.c.		
Maximum charging current	160 Ad.c.		
Maximum charging power	8000 W		
Maximum discharging current	160 Ad.c.	200 Ad.c.	
Maximum discharging power	8000 W	10000 W	
<b>Grid parameter</b>			
Rated input/output voltage	3/N/PE, 230/400 Va.c.		
Rated input/output frequency	50 Hz		
Maximum input current	25 Aa.c.		
Maximum input active power	16000 W	17800 W	
Maximum input apparent power	16000 VA	17800 VA	
Maximum input active power from grid to battery	8600 W		
Rated output current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Maximum continuous output current	12.8 Aa.c.	16.0 Aa.c.	19.2 Aa.c.
Rated output active power	8000 W	10000 W	12000 W
Maximum output active power	8000 W	10000 W	12000 W
Maximum output apparent power	8800 VA	11000 VA	13200 VA
Maximum output active power from battery to grid (without PV input)	7500 W	9300 W	
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		

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## Network analyzer Parameters(Meter 1):

Model	SDM630MCT
Electrical parameter	
Voltage connect type	230/400 Va.c. 3W+N+PE
Rated Frequency	50 Hz
Current specification	120A/40mA
Energy consumption	≤2 W
Type	Through transformer
Precision parameter	
Maximum error limit percentage of various instruments	±1.0
Precision class	Active Power class 1
Communications	
Communication type	RS485 ModBus RTU Protocol
Refresh time	≤100 ms

## Current transformer Parameters:

Model	ESCT-TA16
Rated primary current	120 Aa.c.
Rated transformation ratio	3000:1
Rated load	10 Ω
Rated Frequency	50 Hz
Accuracy	±0.5%

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## Network analyzer Parameters(Meter 2):

Model	ADW300W
Electrical parameter	
Voltage connect type	230/400 Va.c. 3W+N+PE
Rated Frequency	50 Hz
Current specification	120A/30mA
Energy consumption	<2 W
Type	Through transformer
Precision parameter	
Maximum error limit percentage of various instruments	±1.0
Precision class	Active Power class 1
Communications	
Communication type	RS485 ModBus RTU Protocol
Refresh time	≤1 s

## Current transformer Parameters:

Model	HCT16K-FJ-A2
Rated primary current	120 Aa.c.
Rated transformation ratio	4000:1
Rated load	20 Ω
Rated Frequency	50 Hz
Accuracy	±0.5%

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## Network analyzer Parameters(Meter 3):

Model	YDS60-C24
Electrical parameter	
Voltage connect type	230/400Va.c. 3W+N+PE
Rated Frequency	50 Hz
Current specification	100A/50mA
Energy consumption	≤1.5 W
Type	Through transformer
Precision parameter	
Maximum error limit percentage of various instruments	±1.0
Precision class	Active Power class 1
Communications	
Communication type	RS485 ModBus RTU Protocol
Refresh time	≤200 ms

## Current transformer Parameters:

Model	CTF16L-2k-100
Rated primary current	100 Aa.c.
Rated transformation ratio	2000:1
Rated load	20 Ω
Rated Frequency	50 Hz
Accuracy	±0.5%



