

Certificate of Conformity

No. ESY 075386 0221 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
(Hybrid Inverter)**

Model(s): KAC50DP


Parameters: See page 3-4

Applicable standards: UNE 217001:2020

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

Test report no.: 64290233039801

Date, 2023-08-02



(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: UNE 217001:2020 , Tests for systems that avoid energy discharge to the distribution network.
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/ EMS-LCD/ Current transformer
Model and Technical Data	See page 3-4
Software version	Inverter: V000B000D001 Network analyzer: V1004 EMS-LCD: V1.0.2.15
Test Report	64.290.23.30398.01
Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Accreditation No.	D-PL-19065-01-01
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:	KAC50DP
PV input parameter	
Maximum input voltage	1000 Vd.c.
MPPT voltage range	350~800 Vd.c.
MPPT voltage range (full load)	667~750 Vd.c.
Maximum input current	3*36 Ad.c.
PV I _{sc}	3*40 Ad.c.
Battery input/output parameter	
Battery type	Lithium-ion
Input voltage range	350~750 Vd.c.
Maximum input/output voltage	750 Vd.c.
Maximum charging current	2*55 Ad.c.
Maximum charging power	55000 W
Maximum discharging current	2*55 Ad.c.
Maximum discharging power	55000 W
Grid parameter	
Rated input/output voltage	230/400 Va.c., 3/N/PE
Rated input/output frequency	50 Hz
Maximum input current	80 Aa.c.
Maximum input active power	50000 W
Maximum input apparent power	55000 VA
Maximum input active power from grid to battery	50000 W
Rated output current	72 Aa.c.
Maximum continuous output current	80 Aa.c.
Rated output active power	50000 W
Maximum output active power	50000 W
Maximum output apparent power	55000 VA
Maximum output active power from battery to grid (without PV input)	50000 W
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)

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Network analyzer Parameters(Meter):

Model	YDS60-80
Electrical parameter	
Voltage connect type	230/400 Va.c., 3W+N
Rated Frequency	50 Hz
Current specification	500A/1A
Energy consumption	≤1.5W
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	≤1s

EMS-LCD Parameters:

Model	EMP-01
Communication interface compatibility	RS485
Speed of the communication interface	19200 bps

Current transformer Parameters:

Model	YDBH0.66-40I-A
Rated primary current	500 Aa.c.
Rated transformation ratio	500:1
Rated load	10 Ω
Rated Frequency	50 Hz
Accuracy	± 0.5%, class 1.0
Phase angel	± 0.5 degrees (30 minutes) 0 from 1% to 120% of rated current

