ATTESTATION ◆ ATTESTATO ◆ ATTESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Product Service

Compliance Document

No. D 075386 0246 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 with storage battery system)**

Model(s): **Inverter model: KAC50DP**
Battery system model: BC100DE

Parameters: See page 2

Tested according to:
CEI 0-16:2022
CEI 0-16:2022/V1:2022
CEI 0-16:2022/V2:2023
CEI 0-16:2022/V3:2024

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.: 64290243120401

Date, 2024-09-30

(Billy Qiu)

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Parameters:

Inverter model	KAC50DP
PV terminal parameters	
Maximum PV voltage [V_{DC}]	1000
Rated voltage [V_{DC}]	667
MPPT voltage range [V_{DC}]	350 - 800
MPPT voltage range (full load) [V_{DC}]	667 - 750
Maximum input current [A_{DC}]	36/36/36
Isc PV [A_{DC}]	40/40/40
MPPT tracker number	3
Maximum input power [W]	75000
Battery input/output parameters	
Battery type	LiFePO4
Maximum voltage [V_{DC}]	750
Battery rated voltage [V_{DC}]	512
Battery voltage range [V_{DC}]	350 - 750
Maximum charge power [W]	55000
Maximum discharge power [W]	55000
Maximum charge current [A_{DC}]	55/55
Maximum discharge current [A_{DC}]	55/55
Grid terminal input parameters	
Rated input voltage [V_{AC}]	3P+N+PE, 230/400
Rated input frequency [Hz]	50
Maximum continuous input current from grid to battery [A_{AC}]	72
Maximum continuous input current [A_{AC}]	80
Maximum continuous input power from grid to battery [W]	50000
Maximum continuous input active power [W]	50000
Maximum continuous input apparent power [VA]	55000
Power factor range	0.9 inductive to 0.9 capacitive
Grid terminal output parameters	
Rated output voltage [V_{AC}]	3P+N+PE, 230/400
Rated output frequency [Hz]	50
Rated output current [A_{AC}]	72
Maximum continuous output current [A_{AC}]	80
Rated output active power [W]	50000
Maximum output active power [W]	50000
Maximum output apparent power [VA]	55000
Power factor range	0.9 inductive to 0.9 capacitive

Battery model parameters see below page: 3

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The following generators meet the requirements of CEI 0-16:2022, CEI 0-16:2022/V1:2022, CEI 0-16:2022/V2:2023 and CEI 0-16:2022/V3:2024		
Section A	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
	Equipment type	Hybrid Inverter with storage battery system
	Brand	Kstar
	User side connection	☒ Three-phase with neutral ☐ Three-phase without neutral Frequency: 50 Hz Voltage: 230/400 V_{AC}
	Primary energy used	☒ Solar ☒ Storage ☐ Wind ☐ Hydroelectric ☐ CHP ☐ Other:
	Generator model	KAC50DP
	Rated active power output to Grid	50000 W
	Maximum apparent power output to Grid	55000 VA
	The generator:	☒ suitable for installation in plants with a power output of less than or equal to 400 kW ☒ suitable for installation in plants with a power exceeding 400 kW
Section B	Static converter characteristics	
	Manufacturer of inverter	Shenzhen Kstar New Energy Company Limited
	Firmware version	V000B000D001
	Model of inverter	KAC50DP
	Nominal converter power (P_{NINV})	50000 W
Section D	Characteristics of the Storage System (SdA)	
	Batteries that can be used with the above static converters	
	Brand	Kstar
	Technology	LiFePO4
	Models	BC100DE
	CUS module (kWh)	102.4 (with 1 × battery system BC100DE, one battery system includes total 20 battery module BC-PACK-5.1-16S-100A (2P10S) in series)
	BMS firmware version	BAU V3001.31.12.0, BCU V3301.21.12.0, CSU V101.11.0
	Number of modules	1-2 * BC100DE
	Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with manufacturer's instruction.

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Section H	References of the laboratories that performed the tests and their test reports (RdP)	
	Selected method	☒ Tests performed by an accredited laboratory
	Test Reports (RdP)	Test report according to Annex Nbis: 64.290.24.31204.01
	Issued by	Accredited lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-00
	Accreditation body ref.	DAkkS
Section L	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