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<br>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<br>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<br>☒ 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:<br>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 |