



Test Report issued under the responsibility of:



**TEST REPORT**  
**IEC 62477-1**  
**Safety requirements for power electronic converter systems**  
**and equipment**  
**Part 1: General**

**Report Reference No.**.....: **CQES240500038201**  
**Date of issue**.....: **2024-08-22**  
**Total number of pages** .....: **77 Pages**

**Name of Testing Laboratory** .....: **SGS-CEC New Energy Technology (Chongqing) Co., Ltd.**  
**preparing the Report**.....:

**Applicant's name**.....: **RelyEZ Energy Storage Technology Co., Ltd.**  
**Address** .....: **A3603 Building 11A, Shenzhen Bay Science and Technology Ecological Park, No. 16 Keji South Road, Nanshan District, Shenzhen, Guangdong, China**

**TRF template used** .....: **IECEE OD-2020-F1:2020, Ed.1.3**  
**Standard** .....: **IEC 62477-1:2012, AMD1:2016**  
**Test procedure** .....: **CB Scheme**  
**Non-standard test method**.....: **N/A**

**Test Report Form No.**.....: **IEC62477\_1D**  
**Test Report Form(s) Originator** ....: **VDE Prüf- und Zertifizierungsinstitut GmbH**  
**Master TRF** .....: **Dated 2020-09-08**

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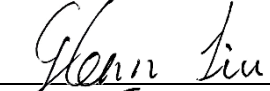
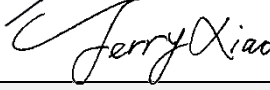
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**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

**General disclaimer:**

The test results presented in this report relate only to the object tested.

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|   |  |  |
|---|--|--|
| <b>Test item description</b> ..... :  | AC LFP Battery Energy Storage System (PCS integrated)  |  |
| <b>Trade Mark</b> .....   |   |  |
| <b>Manufacturer</b> .....   | Jiangsu RelyEZ Energy Storage Technology Co., Ltd.<br>130 Tonggang Road, New District, Zhenjiang, Jiangsu, China   |  |
| <b>Model/Type reference</b> .....   | YXYK-125K/552314-L   |  |
| <b>Ratings</b> .....  | Input / Output:<br>230/400 V~, 50 Hz, 3W+N+PE, 210 A max., 133 kW max.<br>Nominal voltage of battery unit: 832 Vd.c.<br>Capacity: 314 Ah<br>Protective Class I, IP54 |  |
| <b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b> |  |  |
| <input checked="" type="checkbox"/> <b>CB Testing Laboratory:</b>                                 | SGS-CEC New Energy Technology (Chongqing) Co., Ltd.  |  |
| <b>Testing location/ address</b> .....  | Building 13 & 14, No. 1839, Ranjun Road, Shuangfu Street, Jiangjin District, Chongqing, China  |  |
| <b>Tested by (name, function, signature)</b> .....  | Glenn Liu<br>Project Engineer  |   |
| <b>Approved by (name, function, signature)</b> ..   | Jerry Xiao<br>Technical Manager  |  |
| <b>Testing procedure: CTF Stage 1:</b>  |  |  |
| <b>Testing location/ address</b> .....  |  |  |
| <b>Tested by (name, function, signature)</b> .....  |  |  |
| <b>Approved by (name, function, signature)</b> ..   |  |  |
| <b>Testing procedure: CTF Stage 2:</b>  |  |  |
| <b>Testing location/ address</b> .....  |  |  |
| <b>Tested by (name + signature)</b> .....   |  |  |
| <b>Witnessed by (name, function, signature)</b> ..  |  |  |
| <b>Approved by (name, function, signature)</b> ..   |  |  |
| <b>Testing procedure: CTF Stage 3:</b>  |  |  |
| <b>Testing procedure: CTF Stage 4:</b>  |  |  |
| <b>Testing location/ address</b> .....  |  |  |
| <b>Tested by (name, function, signature)</b> .....  |  |  |
| <b>Witnessed by (name, function, signature)</b> ..  |  |  |
| <b>Approved by (name, function, signature)</b> ..   |  |  |
| <b>Supervised by (name, function, signature)</b> :  |  |  |

**List of Attachments (including a total number of pages in each attachment):**

Attachment 1: 10 pages of Photos;

Attachment 2: 2 pages of system logic diagram

**Summary of testing:**

The sample(s) tested complies with the requirements of IEC 62477-1:2012 + AMD1:2016.

Internal battery units (combination of battery packs and control box) have been separately evaluated per IEC 62619, IEC 63056 and IEC 62477-1, and the integrated PCS has been separately evaluated per IEC 62477-1. (Refer to critical component table for details).

**Tests performed (name of test and test clause):**

See appended clause for details

**Testing location:**

SGS-CEC New Energy Technology (Chongqing) Co., Ltd

Building 13 &amp; 14, No. 1839, Ranjun Road, Shuangfu Street, Jiangjin District, Chongqing, China

**Summary of compliance with National Differences (List of countries addressed):**

EU Group Differences

☒ **The product fulfils the requirements of EN 62477-1:2012 + A11:2014 + A1:2017 + A12:2021**

**Statement concerning the uncertainty of the measurement systems used for the tests**

(may be required by the product standard or client)

☐ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**

**Procedure number, issue date and title:**

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

☒ **Statement not required by the standard used for type testing**