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中国认可
国际互认
检测
TESTING
CNAS L0095

No.: RZUN2025-3621

检 测 报 告
TEST REPORT

UN38.3

NAME OF SAMPLE: 产品名称：	Energy Storage System 储能系统
CLIENT: 委托单位：	GoodWe Technologies Co., Ltd. 固德威技术股份有限公司
CLASSIFICATION OF TEST: 检测类别：	Commission Test 委托测试

威凯检测技术有限公司
CVC Testing Technology Co., Ltd.

检 测 报 告
TEST REPORT

Name of samples: Energy Storage System 样品名称: 储能系统	Type/Model: 型号规格: GW125/261-ESA-LCN-G10 832V 314Ah 261,25kWh
Color: White 样品颜色: 白色	Physical shape: Prismatic 样品形状：棱柱形
Commissioned by: GoodWe Technologies Co., Ltd. 委托单位: 固德威技术股份有限公司	Commissioner address: No.90 Zijin Rd., New District, Suzhou, 215011, P.R. China 委托单位地址: 苏州市高新区紫金路 90 号
Manufacturer: GoodWe Technologies Co., Ltd. 制造商: 固德威技术股份有限公司	Manufacturer address: No.90 Zijin Rd., New District, Suzhou, 215011, P.R. China 制造商地址: 苏州市高新区紫金路 90 号
Factory: GoodWe (GuangDe) Power Supply Technology Co., Ltd. 生产厂: 固德威电源科技（广德）有限公司	Factory address: No.8, Dongting Rd., Guangde Economic Development Zone Anhui, China 生产厂地址: 安徽省广德市经济开发区东亭路 8 号
Classification of test: Commission Test 检测类别: 委托测试	Quantity of sample: 1 Battery assembly 样品数量: 1 集成电池组
Tested according to: 测试标准: ST/SG/AC.10/11/Rev.8/ Section 38.3	Sample identification: 样品标识序号: S1#
Receiving date: 接样日期：2025-04-01	Means of receiving: Submitted by commissioner 接样方式：委托单位送样
Completing date: 完成日期：2025-04-30	Test item: - 测试项目：-

Test conclusion:
检测结论:

The Energy Storage System submitted by GoodWe Technologies Co., Ltd. complies with the requirements of Section 38.3 of the Eighth revised edition of the Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.8/Section 38.3).

由固德威技术股份有限公司送检的储能系统，符合联合国《试验和标准手册》第八修订版第 38.3 相关要求。

Seal of CVC
CVC 印章
Date of issue:2025-05-29
签发日期:

Title: Manager
批准人职务： 经理

Approved by: Zhang Siyao Reviewed by: Liu Zhen Tested by: Lin Qingyuan

批 准： 审 核： 检 测：

Description and illustration of the sample/样品说明及描述:

1. The sample's status is good. / 样品状况良好；
2. Sample weight/样品重量：2580kg；
3. Watt-hour rate of the sample/样品的瓦时率：261,25kWh
4. Sample information and compositions/ 样品信息及组成

Name of samples 样品名称	Sample category 样品类别	Type/Model 型号	Specifications 规格参数	Composition 组成结构
Energy Storage System 储能系统	Battery assembly 集成电池组	GW125/261-ESA-LCN-G10	832V 314Ah 261,25kWh	Consists of 5 batteries / 由 5 个电池组组成
Rechargeable Lithium-ion Battery Module 锂离子电池模块	Battery 电池组	Y52 2.0	166,4V 314Ah 52,249kWh	Consists of 52 component cells / 由 52 个内部电芯组成
Rechargeable Prismatic Lithium-ion Cell 可充电方形锂离子电池	Component Cell 内部电芯	CB75	3,2V 314Ah 1,0048kwh	Single cell / 单电芯

5. Item information /项目信息

Name of samples 样品名称	Item 项目	Sample No. 样品编号	State 状态	Remark 备注
Energy Storage System 电池储能系统	38.3.3(g)	S1#	more than 6200Wh 超过 6200Wh	-

Description of the sampling procedure/取样程序的说明:

/

Description of the deviation from the standard, if any/测试结果不符合标准项的说明:

/

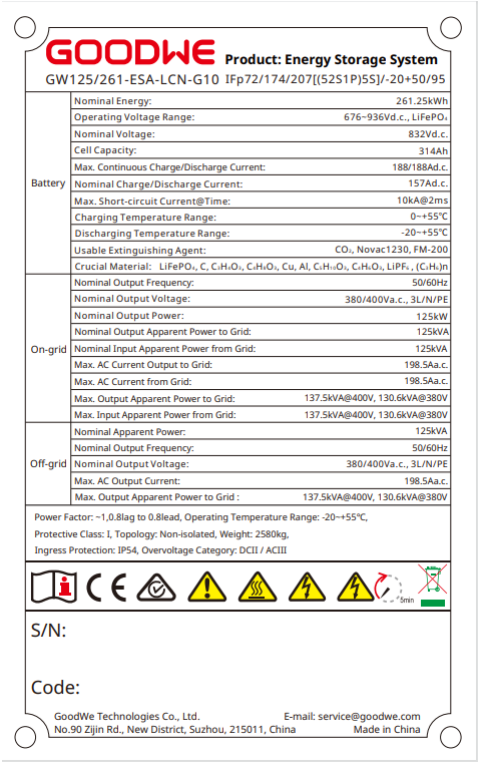
Remarks/备注：

1. Throughout this report a comma is used as the decimal separator.
   本报告中以逗号代替小数点。
2. The Energy Storage System (GW125/261-ESA-LCN-G10) described in this report is a collection of Rechargeable Lithium-ion Battery Module (Y52 2.0). The Rechargeable Lithium-ion Battery Module (Y52 2.0) has passed the testing of ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3. See the report RZUN2024-2225. According to the standard requirements, T.1~T.8 not need to be verified for Energy Storage System (GW125/261-ESA-LCN-G10).
   本报告所述储能系统（GW125/261-ESA-LCN-G10）是锂离子电池模块（Y52 2.0）的集合体。该锂离子电池模块（Y52 2.0）已通过 ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3 测试，详情见报告 RZUN2024-2225。根据标准要求，储能系统（GW125/261-ESA-LCN-G10）无需进行 T.1~T.8 测试。

样品照片 Photos of Samples

Battery assembly / 集成电池组

（GW125/261-ESA-LCN-G10 832V 314Ah 261,25kWh）



GOODWE **Product: Energy Storage System**

GW125/261-ESA-LCN-G10 IFp72/174/207[(52S1P)5S]/-20+50/95

Battery	Nominal Energy:	261.25kWh
	Operating Voltage Range:	676~936Vd.c., $LiFePO_4$
	Nominal Voltage:	832Vd.c.
	Cell Capacity:	314Ah
	Max. Continuous Charge/Discharge Current:	188/188Ad.c.
	Nominal Charge/Discharge Current:	157Ad.c.
	Max. Short-circuit Current@Time:	10kA@2ms
	Charging Temperature Range:	0~+55℃
	Discharging Temperature Range:	-20~+55℃
	Usable Extinguishing Agent:	CO_2, Novac1230, FM-200
	Crucial Material:	$LiFePO_4$, C, $C_3H_4O_3$, $C_4H_6O_3$, Cu, Al, $C_3H_{10}O_4$, $C_3H_6O_3$, $LiPF_6$, $(C_3H_6)n$
On-grid	Nominal Output Frequency:	50/60Hz
	Nominal Output Voltage:	380/400Va.c., 3L/N/PE
	Nominal Output Power:	125kW
	Nominal Output Apparent Power to Grid:	125kVA
	Nominal Input Apparent Power from Grid:	125kVA
	Max. AC Current Output to Grid:	198.5Aa.c.
	Max. AC Current from Grid:	198.5Aa.c.
	Max. Output Apparent Power to Grid:	137.5kVA@400V, 130.6kVA@380V
	Max. Input Apparent Power from Grid:	137.5kVA@400V, 130.6kVA@380V
Off-grid	Nominal Apparent Power:	125kVA
	Nominal Output Frequency:	50/60Hz
	Nominal Output Voltage:	380/400Va.c., 3L/N/PE
	Max. AC Output Current:	198.5Aa.c.
	Max. Output Apparent Power to Grid :	137.5kVA@400V, 130.6kVA@380V

Power Factor: ~1,0.8lag to 0.8lead, Operating Temperature Range: -20~+55℃,
Protective Class: I, Topology: Non-isolated, Weight: 2580kg,
Ingress Protection: IP54, Overvoltage Category: DCII / ACIII

S/N:

Code:

GoodWe Technologies Co., Ltd. E-mail: service@goodwe.com
No.90 Zijin Rd., New District, Suzhou, 215011, China Made in China

样品照片 Photos of Samples

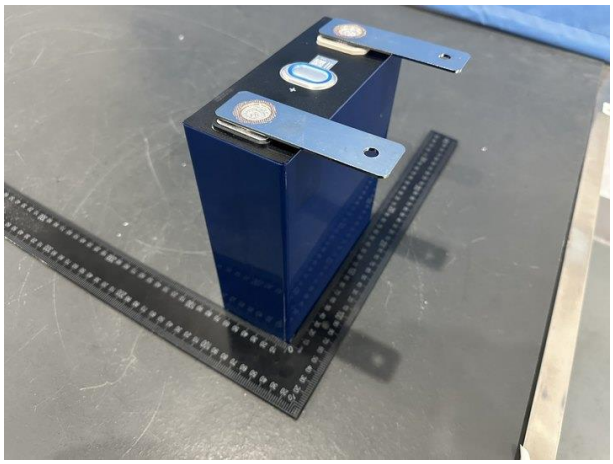
Battery / 电池组

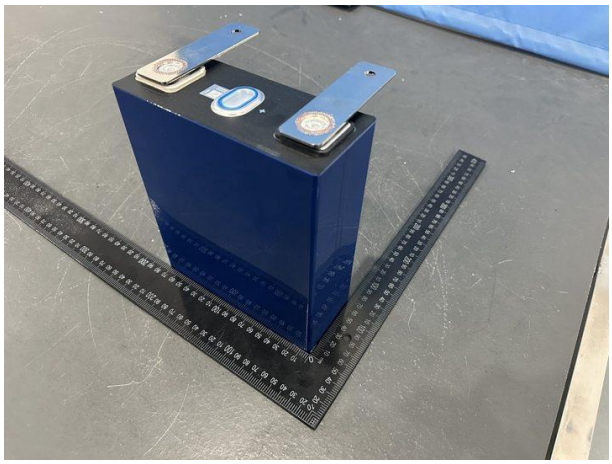
（Y52 2.0 166,4V 314Ah 52,249kWh）

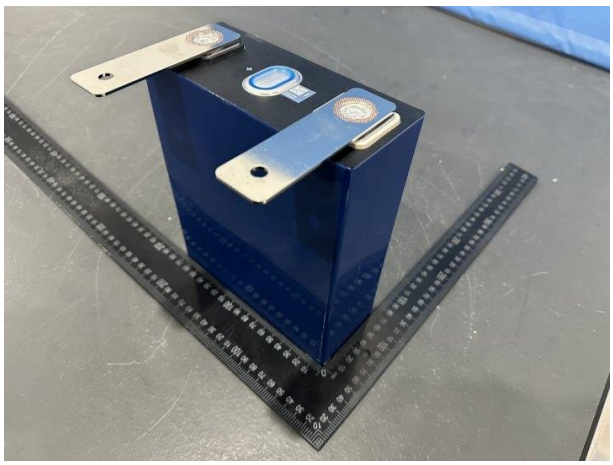
样品照片 Photos of Samples

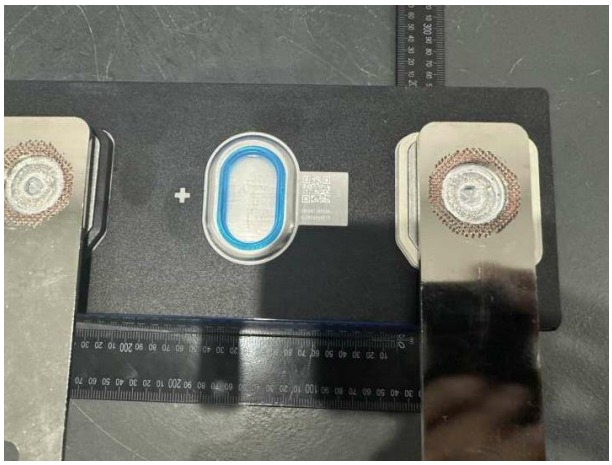
Component Cell / 内部电芯

（CB75 3,2V 314Ah 1,0048kwh）









ST/SG/AC.10/11/Rev.8/ Section 38.3			
Clause **章节**	**Requirements** **标准要求**	**Result** **结果**	**Verdict** **判定**
38.3.3(g)	Requirements/标准要求 When lithium batteries that have passed all applicable tests are electrically connected to form a battery in which the aggregate lithium content of all anodes, when fully charged, is more than 500g, or in the case of a lithium ion battery, with a Watt-hour rating of more than 6200Wh, the assembled battery does not need to be tested if the assembled battery is of a type that has been verified as preventing: (i) Overcharge; (ii) Short circuits; and (iii) Over discharge between the batteries. /对于已通过所有适用试验的若干锂电池组以电路连接而成的集成电池组，如在完全充电时所有正极的合计锂含量大于 500 克，或在锂离子电池组的情况下，如额定的瓦时数超过 6200 瓦时，该集成电池组如经过验证属于可防止下列状况，即无需进行试验（T.1~T.8 测试项）： (一) 过度充电； (二) 短路；以及 (三) 电池组之间过度放电。	The watt-hour rating of Energy Storage System (GW125/261-ESA-LCN-G10) is 261,25kWh (more than 6200Wh); 该储能系统（GW125/261-ESA-LCN-G10）的额定瓦时数为 261,25kWh（超过 6200Wh）； After verification, the Energy Storage System (GW125/261-ESA-LCN-G10) is equipped with the energy storage system management unit, which can monitor and control each battery component. By sending instructions and cutting off the loop of the Energy Storage System, it can prevent overcharging, short circuit, and excessive discharge among the battery strings in the battery component; The test report of the protection function of Energy Storage System (GW125/261-ESA-LCN-G10) for overcharge, short circuit and overdischarge is WTS2025-12209. 经验证，储能系统（GW125/261-ESA-LCN-G10）具备储能系统管理单元，能够监测并控制各电池组件，通过发送指令，切断储能系统的回路等方式，达到防止过度充电、防止短路，以及防止电池组件内各电池组之间过度放电的功能。 储能系统（GW125/261-ESA-LCN-G10）的过度充电、短路和过度放电的保护功能测试详见报告 WTS2025-12209。	**P**

注 意 事 项
Important

1. 报告无检测单位印章无效。
   The test report is invalid without the seal of CVC.
2. 未经本试验室书面同意，不得部分地复制本报告。
   Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
3. 本报告无批准人、审核人及检测人签名无效。
   The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
4. 本报告涂改无效。
   The test report is invalid if altered,
5. 对检测报告若有异议，应于收到报告之日起十五天内向检测单位提出。
   Objections to the test report must be submitted to CVC within 15 days.
6. 本报告仅对送检样品负责。
   The test report is valid for the tested samples only.
7. 判定栏中“-”表示“不需要判定”，“P”表示“通过”，“F”表示“不通过”，“N/A”表示“不适用”。
   As for the Verdict, “-” means “no need for judgement”, “P” means “pass”， “F” means “fail” and “N/A” means “not applicable”.

报告中未加 CMA 标志时，检测数据和结果仅供科研、教学或内部质量控制之用。
The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

地　址：广东省广州市科学城开泰大道天泰一路 3 号
广东省广州市黄埔区光谱东路 179 号百事高智慧园 D 栋(测试地址)
Address: No.3, Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou，Guangdong, China.
Building D, BASIGO INTELLIGENT, No.179, Guangpu East Road, Huangpu District, Guangzhou, P. R. China. (Testing Location)
电　话(Tel)：020 32293888
传　真(FAX)：020 32293889
邮政编码(Post Code)：510663
E-mail： office@cvc.org.cn
http://www.cvc.org.cn