



180002112718



中国认可  
国际互认  
检测  
TESTING  
CNAS L1000



# 检验检测报告

## Inspection and Detection Report

No. (2021)GJZGJ-WT0721

样品名称  
Name of Sample 太阳能组件铝边框 Aluminum frame of solar module

受检单位  
Party being tested

生产单位  
Manufacturer 江苏固尚新能源有限公司Jiangsu Goodsun New Energy Co., LTD

委托单位  
Consigner 江苏固尚新能源有限公司Jiangsu Goodsun New Energy Co., LTD

检验检测类别  
Inspection and Detection kind 委托检验Entrusting\_test



国家工程复合材料产品质量监督检验中心

National Quality Supervision and Testing Center for Engineering Composite Material Products

# 注 意 事 项

- 一、本检验检测报告如未加盖本机构检验检测专用章或数据涂改的均无效。
- 二、本检验检测报告未经本机构书面允许，不得以任何方式复制。经同意复制的检验检测报告应全文复制并经本机构加盖本机构检验检测专用章确认后有效。
- 三、对本检验检测报告中监督检验结果有异议者，请收到《检验结果通知单》后向实施监督检查的产品质量监督部门或者其上级产品质量监督部门申请复检；对其他类别检验检测结果有异议的，请于收到报告之日起十五日内向本机构提出。
- 四、送样委托检验，检验检测数据、结果仅证明样品所检项目的符合性情况，未经本机构同意，委托人不得擅自使用检验检测数据、结果进行不当宣传。
- 五、检验检测剩余样品务必在收到本检验检测报告三个月（时效期短的按有效期限）内领取，逾期不领者，将按本机构规定处理。
- 六、报告无主检、审核、批准人签字无效。

## Notice

1. This inspection and detection report shall be invalid if it is not stamped with the special seal for inspection and detection of the organization or the data in the report has been tampered with.
2. This inspection and detection report shall not be reproduced in any form without the written permission of the organization. If reproduction is permitted, the copy of the report must be made in full text, and the copy shall be valid only after stamped with the special seal for inspection and detection of the organization.
3. Should there be any objections to the supervision and inspection results in this inspection and detection report, please apply to product quality supervision department or the superior product quality supervision department for reinspection upon receipt of the Inspection Results Notification. Regarding objections to other inspection and detection results in the report, please file objection to the organization within 15 days upon receipt of the report.
4. For entrusted detections, the inspection and detection data and results shall only apply to inspected qualities of the samples. The client is not allowed to use the inspection and detection data and results for improper advertising without the permission of the organization.
5. Please retrieve the remaining samples within 3 months (samples with shorter valid period should be retrieved within the valid period) after receiving this inspection and detection report without fail. The samples will be dealt with in accordance with the regulations of the organization if not taken back within the deadline.
6. This report shall be invalid without the signature of chief inspector, verifier and approver.

# 国家工程复合材料产品质量监督检验中心

National Quality Supervision and Testing Center for Engineering Composite Material Products

## 检验检测报告

Inspection and Detection Report


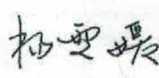
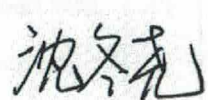
No.(2021)GJZGJ-WT0721

共 3 页 第 1 页

样品名称 Name of Sample	太阳能组件铝边框 Aluminum frame of solar module		规格型号 Type and Specifications	6005- T6 WF-8570 AA15	
生产日期\批号 Producing Date\Batch No.	—\—		商标 Trademark	—	
委托单位名称\地址\电话\邮编 Consigner\Add\Tel\PC	江苏固尚新能源有限公司Jiangsu Goodsun New Energy Co., LTD江苏省宜兴市新庄街道曹家村唐芳路Tangfang Road, Xinzhuang Sub-district, Yixing City, Jiangsu Province, China\—\—				
生产单位名称\地址\电话\邮编 Manufacturer\ Add\Tel\PC	江苏固尚新能源有限公司Jiangsu Goodsun New Energy Co., LTD江苏省宜兴市新庄街道曹家村唐芳路Tangfang Road, Xinzhuang Sub-district, Yixing City, Jiangsu Province, China\—\—				
受检单位名称\地址\电话\邮编 Party being tested\Add\Tel\PC	—\—\—\—				
检验检测类别 Inspection and Detection kind	委托检验 Entrusting_test	任务来源/任务号 Task from/Task NO	—	抽样单编号 Sampling List	—
样品数量 Quantity of Sample	2件pieces×500mm	抽样基数 Batch of Sample	—	样品编号 Numbered of Sample	(2021)GJZGJ-WT0721
抽样日期 Sampling Date	—	抽样人员 Sampling staff	—	抽样地点 Sampling Location	—
样品等级 Grade	—	备样量及封存地点 Quantity & Location of Backup Samples	—\—	封样状态 Sealing state	—
样品到达日期 Arrival Date of Sample	2021-04-16	样品状态 Description of Sample	符合检验检测要求 Comply with inspection requirement	检查封样人员 Checking of Sealing Sample	—
检验检测日期 Inspection and Detection Date	2021-04-19~2021-04-23		检验检测地点 Inspection and Detection Add.	本机构光华东街/Guanghua East Road	
检验检测依据 Inspection and Detection Standard(s)	GB/T 5237.2-2017《铝合金建筑型材 第2部分: 阳极氧化型材Wrought aluminium alloy extruded profiles for architecture. Part 2:Anodized profiles》;GB/T 12967.3-2008《铝及铝合金阳极氧化膜检测方法 第3部分:铜加速乙酸盐雾试验(CASS试验)Test Methods for anodic oxidation coatings of aluminium and aluminium alloys. Part 3:Copper accelerated acetic acid salt spray test (CASS test)》;GB/T 4340.1-2009《金属材料 维氏硬度试验 第1部分: 试验方法Metallic materials. Vickers hardness test. Part 1:Test method》				
判定依据 Decision Criterion	GB/T 5237.2-2017《铝合金建筑型材 第2部分: 阳极氧化型材Wrought aluminium alloy extruded profiles for architecture. Part 2:Anodized profiles》;《太阳能组件铝边框技术要求Technical requirements for solar panel aluminum frame》				
检验检测结论 Inspection and Detection Conclusion	经检验检测, 样品所检项目符合GB/T 5237.2-2017标准和《太阳能组件铝边框技术要求》规定的要求。 The tested items of the sample are correct as the GB/T 5237.2-2017 standard and 《Technical requirements for solar panel aluminum frame》.				
备注 Note	空心型材Hollow profile 公称壁厚Nominal wall thickness: 1.5mm 《太阳能组件铝边框技术要求Technical requirements for solar panel aluminum frame》所涉及项目的检测方法均通过检验检测机构资质认定和实验室认可, 根据客户要求按技术要求进行判定The testing methods of the projects involved have passed the qualification recognition and laboratory accreditation of inspection and testing institutions, and are determined according to the technical requirements of customers.				



签发日期 2021年4月23日  
Signature date Y M D

审批: 郑伟  校核: 杨雯媛  主检: 沈冬尧   
Approval Proofreader Major tester

# 国家工程复合材料产品质量监督检验中心

National Supervising & Testing Center for Engineering Composite Materials'Quality

## 检验检测结果

### Inspection and Detection Results

No.(2021)GJZGJ-WT0721

共 3 页 第 2 页

序号 No.	检验检测项目 Inspection and Detection item	单位 Unit	技术要求 Technical Specifications	检验检测结果 Inspection and Detection Results	单项评价 Monomial Evaluation	
1	Si,%	—	0.6~0.9	0.6	合格 Pass	
2	Fe,%	—	≤0.35	0.06	合格 Pass	
3	Cu,%	—	≤0.10	<0.0001(方法检出限 Method Detection limit)	合格 Pass	
4	Mn,%	—	≤0.10	<0.0001(方法检出限 Method Detection limit)	合格 Pass	
5	Mg,%	—	0.40~0.6	0.59	合格 Pass	
6	Cr,%	—	≤0.10	0.001	合格 Pass	
7	Zn,%	—	≤0.10	0.005	合格 Pass	
8	Ti,%	—	≤0.10	0.02	合格 Pass	
9	规定非比例延伸强度 $R_{p0.2}$ Stress at 0.2% non-proportional elongation	N/mm <sup>2</sup>	≥215	267	合格 Pass	
10	抗拉强度 $R_m$ Tensile strength	N/mm <sup>2</sup>	≥255	291	合格 Pass	
11	断后伸长率 $A_{50mm}$ , % Percentage elongation after fracture in 50mm	—	≥6	13.0	合格 Pass	
12	膜厚Thickness	平均膜厚 Average thickness	μm	≥15	17	合格 Pass
		局部膜厚 Local thickness	μm	≥12	16~18	合格 Pass

# 国家工程复合材料产品质量监督检验中心

National Supervising & Testing Center for Engineering Composite Materials' Quality

## 检验检测结果

### Inspection and Detection Results

No.(2021)GJZGJ-WT0721

共 3 页 第 3 页

序号 No.	检验检测项目 Inspection and Detection item	单位 Unit	技术要求 Technical Specifications	检验检测结果 Inspection and Detection Results	单项评价 Monomial Evaluation
13	硬度HV10 Vickers hardness	—	≥99	107,108,107	合格 Pass
14	封孔质量 Hole sealing quality	mg/dm <sup>2</sup>	≤30	15	合格 Pass
15	耐磨性-落砂试验 Abrasion resistance - Falling sand test	g/μm	≥330	330g/μm未磨穿 Without worn through	合格 Pass
16	耐盐雾腐蚀性 (CASS试验72h) Corrosion resistance to salt spray (CASS test for 72h)	—	≥9级Grade	9.8级Grade	合格 Pass
备注 Note	—				

以下空白 Blank below



本页空白

质量  
专用

## 简介

江苏省产品质量监督检验研究院是隶属于江苏省市场监督管理局的全额拨款公益性事业单位,是江苏省从事综合性、专业性产品质量监督检验的机构,于一九八二年二月经江苏省编制委员会批准成立。下设八个国家中心,分别是:

●国家化妆品产品质量监督检验中心

业务电话: 025-84470308 ; 传真: 025-84470257; 地址: 南京市光华东街5号; 邮编: 210007

●国家农药产品质量监督检验中心(南京)

业务电话: 025-84470312、84470252、84470324 ; 传真: 025-84470312 ; 地址: 南京市光华东街5号; 邮编: 210007

●国家工程复合材料产品监督检验中心

冶金中心业务电话: 025-84470294、84470291; 传真: 025-84470293;  
化建中心业务电话: 025-84470296、84470289; 传真: 025-84470297 ;  
地址: 南京市光华东街5号; 邮编: 210007

●国家食品包装产品质量监督检验中心(江苏)

业务电话: 025-84470318 ; 传真: 025-84470263 ; 地址: 南京市光华东街5号 ; 邮编: 210007

●国家家用电器产品质量监督检验中心(江苏)

业务电话: 025-84470274; 传真: 025-84470274; 地址: 南京市光华东街5号 ; 邮编: 210007

●国家消防产品质量监督检验中心(江苏)

业务电话: 025-84470346、84470347; 传真: 025-84470347 ; 地址: 南京市江宁滨江开发区天成路36号; 邮编: 211162

●国家电线电缆产品质量监督检验中心(江苏)

业务电话: 0510-80713730、80713755; 传真 0510-80713799; 地址: 宜兴市绿园路500号; 邮编: 214205

●国家信息网络产品质量监督检验中心(江苏)

业务电话: 0512-66591853; 传真: 0512-65252771; 地址: 苏州市吴中区吴中大道1368号吴中科技园B楼; 邮编: 215104

## Profile

Jiangsu Product Quality Testing & Inspection Institute(JPQTH) is specialized in product testing, quality certification, technical development and technical consultation, under the authorization from Jiangsu Administration for Market Regulation. JPQTH now is consisted of 8 country-level product quality testing centers:

●National Quality Supervision and Testing Center for Cosmetics

Add: No.5 Guanghua East Road, Nanjing; Business Tel: 025-84470308

●National Quality Supervision and Testing Center for Pesticide Products (Nanjing)

Add: No.5 Guanghua East Road, Nanjing; Business Tel: 025-84470312、84470252、84470324

●National Quality Supervision and Testing Center for Engineering Composite Material Products

Add: No.5 Guanghua East Road, Nanjing; Business Tel: 025-84470294、84470289

●National Quality Supervision and Testing Center for Food Packaging Products (Jiangsu)

Add: No.5 Guanghua East Road, Nanjing; Business Tel: 025-84470318

●National Quality Supervision and Testing Center for Household Electrical Appliance Products (JiangSu)

Add: No.5 Guanghua East Road, Nanjing; Business Tel: 025-84470274

●National Quality Supervision and Testing Center for Fire Products (JiangSu)

Add: No.36, Tiancheng Road, Binjiang Economic Development Zone, Nanjing; Business Tel :025-84470346、84470347

●National Quality Supervision and Testing Center for Cables and Wires (Jiangsu)

Add: No.500 Luyuan Road, Yixing Business Tel: 0510-80713730、80713755

●National Quality Supervision and Testing Center for Information Network Products (Jiangsu)

Add: No.1368, Wuzhong Avenue, Suzhou ; Business Tel: 0512-66591853

