

Jiangsu Product Quality Testing & Inspection Institute

Inspection and Detection Report

No.:(2024)SJSXW-WT0472

Page 1 of 6

Name of Sample	Hybrid inverter		Type and Specifications	Hybrid inverter	
Producing Date\Batch No.	\		Trademark	—	
Consigner\Add\Tel\PC	Huizhou Foryou Optoelectronics Technology Co., LTD\Building 6, B Area, No.1 North Shangxia Road, Dongjiang High-Tech Industry Park Huizhou\—\—				
Manufacturer\Add\Tel\PC	Huizhou Foryou Optoelectronics Technology Co., LTD\Building 6, B Area, No.1 North Shangxia Road, Dongjiang High-Tech Industry Park Huizhou\—\—				
Party being tested\Add\Tel\PC	—				
Inspection and Detection kind	Entrusted Inspection	Task from/Task NO.	—	Sampling List	—
Quantity of Sample	1pcs	Batch of Sample	—	Numbered of Sample	(2024)SJSXW-WT0472
Sampling Date	—	Sampling Staff	—	Sampling Location	—
Grade	—	Quantity & Location of Backup Samples	0\—	Sealing State	—
Arrival Date of Sample	2024/7/1	Description of Sample	Match Test Requirement	Checking of Sealing Sample	—
Inspection and Detection Date	2024/7/5~2024/7/6		Inspection and Detection Add.	No. 1368, Wuzhongdadao Avenue, Suzhou, China	
Inspection and Detection Standard(s)	IEC 60529:2013<Degrees of protection provided by enclosure (IP code)>				
Decision Criterion	IEC 60529:2013<Degrees of protection provided by enclosure (IP code)>				
Test Conclusion	Based on the test of sample,all the projects meet the requirements of IEC 60529:2013 standard. (The Special Seal for Inspection and Detection) Signature Date: 2024/08/08				
Note	The sample's product name is determined according to consignment testing contract.				

Approval 梁学俊

梁学俊 roofreader 鞠伟刚

鞠伟刚 jortester 叶徐

叶徐



Summary of Test Results

No.	Test Item	Test Standard	Result	Judgment
1	Degrees of protection provided by enclosure	IEC 60529:2013	See more details at 1	Pass
Remark				

Description of Equipment Under Test

0 Basic information of EUT:

0.1 EUT

Product Name:	Hybrid inverter
Specifications:	EAG12K3L

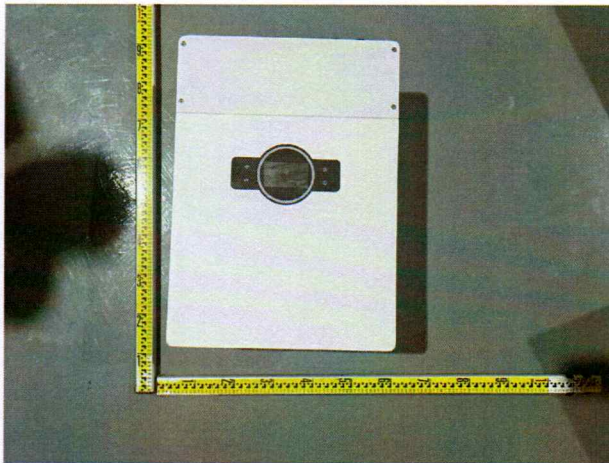


Photo 1: Appearance of sample

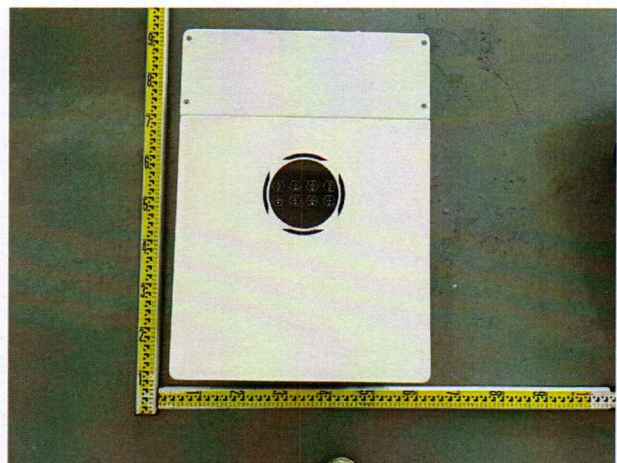


Photo 2: Appearance of sample

ADAYO Hybrid Inverter

EAG12K3L	NO.
PV input	
Vmax PV (Vdc) (absolute Max.)	1000V
Isc PV (absolute Max.) (A)	45A/22.5A
MPPT voltage range (Vdc)	200-800V
Max. PV input current / strings (A)	36A/18A
Battery (charge/discharge)	
Battery type	Li-Ion/Lead-acid
Battery Normal Voltage (Range) (Vdc)	48V (40-60V)
Max Current(A)	250A
Max Power(kW)	12kW
AC Grid (input and output)	
AC voltage (Vac), Freq. (Hz)	3ΦN/PE 230/400VAC, 50/60Hz
Max. cont. input current (A)	40A
Max. cont. output current (A)	20A
Max. cont. input Power (kW)	24kW
Max. cont. output Power (kW)	12kW
Max. cont. Apparent Power (kVA)	13.2kVA
Power factor	0.8 leading to 0.8 lagging
AC Load output (stand alone)	
Normal voltage (Vac), Freq. (Hz)	3ΦN/PE 230/400VAC, 50/60Hz
Max. cont. Current(A)	20A
Max. cont. Power (kW)	12kW
Power factor	0.8 leading to 0.8 lagging
Others	
Ingress protection (IP)	IP66
Protective class	Class I
Temperature (°C)	-25°C to +60°C (Derating 45°C)
Overvoltage category	OVC III (AC Main), OVC II (DC)
Inverter Topology	
	Non-isolated (PV- AC), High frequency isolated(Battery Side)



Huizhou Foryou Optoelectronics Technology Co.,Ltd.
 Add: Foryou Industrial Park Area B, No.1 North Shangxia Road,
 Dongjiang High-tech Industry Park, Huizhou City,
 Guangdong Province, China
 E-mail : nes@adayoled.com

Photo 3: Appearance of sample

Test Requirements and Results

No.	Test Item	Unit	Test conditions	Result	Judgment
1	Degrees of protection provided by enclosure		Degrees of protection provided by enclosure (IP66)	Meet the requirements	Pass
			Degrees of protection provided by enclosure(IP6X) 1. Protection against solid foreign objects indicated: If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2h.If with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, and the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed. 2. Protection against access to hazardous parts indicated: The test wire of 1.0 mm φ shall not penetrate and adequate clearance shall be kept. The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.	Meet the requirements	
			Degrees of protection provided by enclosure (IPX6) Protection provided by enclosures with respect to harmful effects on the equipment due to the ingress of water: Water projected in jets against the enclosure from any direction shall have no harmful effects. a. Internal diameter of the nozzle: 12.5 mm; b. Delivery rate: (100±5)L/min; c. Water pressure: to be adjusted to achieve the specified delivery rate; d. Core of the substantial stream: circle of approximately 120 mm diameter at 2.5 m distance from nozzle; e. Test duration per square meter of enclosure surface area likely to be sprayed: 1 min; f. Minimum test duration: 3min; g. Distance from nozzle to enclosure surface: between 2.5 m and 3 m.	Meet the requirements	

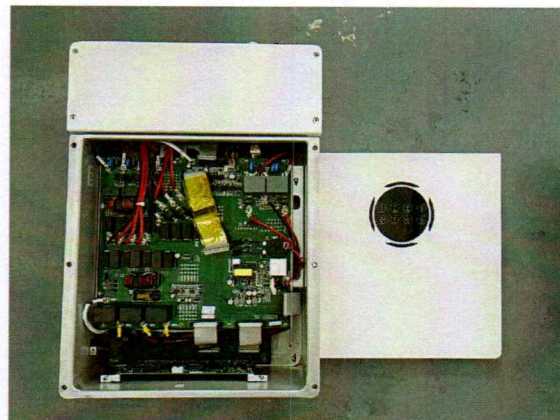
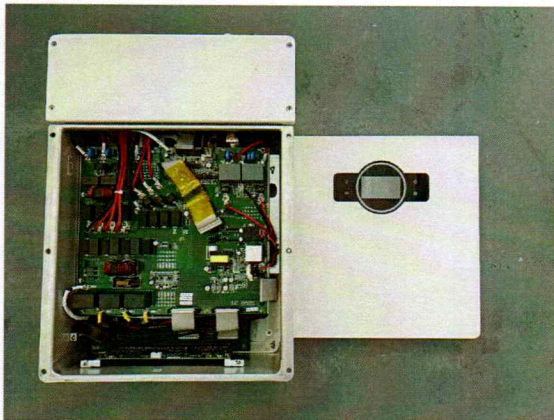
Test Requirements and Results



Test photo of IP6X



Test photo of IP6X



Inside photo of the sample after test

Equipment List

No.	Instrument	Model No.	Serial No.	Valid Date	Used
1	Dust proof test chamber	SC-020	NTIe-510-041-00-C	2025-05-23	<input checked="" type="checkbox"/>
2	Probe	T5-51	NTIe-510-115-00-P	2025-02-29	<input checked="" type="checkbox"/>
3	Dynamometer	SH-200	NTIe-510-123-00-P	2025-04-11	<input checked="" type="checkbox"/>
4	Hose spray tester	RPS	NTIe-510-031-00-C	2025-02-22	<input checked="" type="checkbox"/>
5	Steel tape	3m	NTIe-510-206-00-P	2025-02-23	<input checked="" type="checkbox"/>
6	Electronic stopwatch	DM1-010	NTIe-510-003-00-C	2025-02-27	<input checked="" type="checkbox"/>

Remark: stands for the equipments used in this test

(End of Report)

简介

江苏省产品质量监督检验研究院是隶属于江苏省质量技术监督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。下设七个国家中心，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** 业务电话：冶金中心025-84470294、025-84470291/化建中心025-84470296、025-84470289；传真：冶金中心025-84470293 / 化建中心025-84470297；地址：南京市光华东街5号；邮编：210007
- **国家电线电缆产品质量监督检验中心(江苏)** 业务电话：0510-80713730(宜兴)0510-80713755(宜兴) / 0516-83641910(徐州)； 传真0510-80713799(南京) / 0516-85610125(徐州)；地址：宜兴市绿园路500号/徐州市新城区产业园区商聚路；邮编：214205(宜兴) / 221000(徐州)
- **国家食品包装产品质量监督检验中心** 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 Supervision and Inspection Institute (JPQSII), is specialized in product testing, quality certification, technical development and technical consultation, under the authorization from China General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ) and Jiangsu Quality and Technical Supervision Bureau. JPQSII now is consisted of 7 country-level product quality testing centers:

- National Quality Supervision & Testing Center for Cosmetics / National Quality Supervision & Testing Center for Pesticide (Nanjing) / National Quality Supervision & Testing Center for Engineering Composite Materials / National Quality Supervision & Testing Center for Food Packaging (Jiangsu)

Address: 5 Guanghua East Road, Nanjing; Vocational Tel: 025-84470235

- National Quality Supervision & Testing Center For Cables And Wires (JiangSu)

Address: 500 Luyuan Road, Yixing / 66 Hubei Road, Quanshan, Xuzhou; Vocational Tel: 0510-8071 3755 (Yi) / 0516-85610125 (Xu)

- National Quality Supervision & Testing Center for Information Network (Jiangsu)

Address: No.1368, Wuzhong Avenue, Suzhou; Vocational Tel: 0512-66591837

情况说明

Statement

我中心出具报告：(2024)SJSXW-WT0472 对应样机 EAG12K3L、EAG10K3L、EAG8K3L、EAG7K3L、EAG6K3L、EAG5K3L 系列，主测型号为最大功率型号 EAG12K3L。

Our center issued the report : (2024)SJSXW-WT0472 corresponding to model EAG12K3L、EAG10K3L、EAG8K3L、EAG7K3L、EAG6K3L、EAG5K3L series, the main test model is EAG12K3L which has the maximum output power between these models.

江苏省产品质量监督检验研究院
国家信息网络产品质量检验检测中心

2023年7月8日

附报告基本信息

报告编号：(2024)SJSXW-WT0472

样品名称：Hybrid inverter

委托单位：Huizhou Foryou Optoelectronics Technology Co., LTD

样品照片：

