

英利能源发展有限公司 Yingli Energy Development Co., Ltd
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Solwave Power Plants GmbH

Kromsdorfer Str. 17
99427 – Weimar
Germany

Date: Sept. 24, 2025

To whom it may concern:

We, Yingli Energy Development Co., Ltd (hereinafter 'Yingli'), hereby declare that, the bifacial solar module YL450CF48 i/2 we're supplying to Solwave Power Plants GmbH (hereinafter 'Solwave') for the PP West + East Greenfield PV systems and the carport systems in Hameln are with Anti-reflective coating glass and reflection-reduced. The weighted average reflectance of the module is less than 4%."

Best Regards,

Xuejian Li
Manager of Product
Yingli Energy Development Co., Ltd





检验检测报告

TEST REPORT

No: 2024DACS20399



产品名称	晶体硅光伏组件
SAMPLE	PV modules
规格型号	---
MODEL/TYPE	--
委托单位	英利能源发展有限公司
APPLICANT	Yingli Energy Development Co., LTD

国家太阳能光伏产品质量检验检测中心
 National Center of Inspection on Solar Photovoltaic Products Quality
 无锡市检验检测认证研究院
 Wuxi Institute of Inspection, Testing and Certification



无锡检研

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国家太阳能光伏产品质量检验检测中心

National Center of Inspection on Solar Photovoltaic Products Quality

无锡市检验检测认证研究院

Wuxi Institute of Inspection, Testing and Certification

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Add.: No.8 Chunxin East Road,Dongting,Xishan District, Wuxi,Jiangsu / No.5 Xinhua Road,Xinwu District,Wuxi, Jiangsu

检验机构邮编:214101/214028 检验机构业务电话（含区号）:0510-88206953

检验机构传真(含区号): 0510-88226615/88209373 检验机构E-mail:wxt@wxzjs.com

报告验证码: 13717425

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TEST REPORT

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产品名称 Sample Description	晶体硅光伏组件 PV modules	规格型号 Model/Type	---
		商 标 Trade Mark	---
标称生产单位 Nominal Producer	---		
委托单位名称\地址\邮编 Applicant Name \Add. \P.C.	英利能源发展有限公司\保定市朝阳北大街 3399 号 5 号厂房 227 室\-- Yingli Energy Development Co., LTD\No. 3399, Chaoyang North Road, Baoding, 071051 Hebei, P. R. China\--		
样品数量 Sample Quantity	1 件 1 piece	样品状态 Condition of Sample	符合测试要求 The sample is ready for test
标称生产日期/批号 Nominal Date of Production /Lot No.	--/--	样品接收日期 Date of Sample Receiving	2024-07-18
检验检测日期 Testing Date(s)	2024-07-22~2024-07-25	检验检测地点 Testing Location	本机构·新华路 CPVT·Xinhua Road
检验检测依据 Test In Accordance With	参照 GB/T 2680-2021《建筑玻璃 可见光透射比、太阳光直接透射比、太阳能总透射比、紫外线透射比及有关窗玻璃参数的测定》 委托单位测试要求 Refer to GB/T 2680-2021 Glass in building-Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors Test requirements given by the customer		
判定依据 Decide In Accordance With	国家光伏质检中心 ---		
检验结论 Conclusion	---		
备 注: Remarks:	---		

检测
★
检测
(2)
产品质量
★
检测专



批准: 刘春荣
Approved by
刘春荣

审核: 杨君
Reviewed by
杨君

主检: 潘胜
Tested by
潘胜

检验检测结果

A List OF Test RESULT

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序号 NO.	测试项目 TESTING ITEMS	单位 UNIT	技术要求 TECHNICAL REQUIREMENTS	测试结果 TEST RESULTS	单项评价 JUDGEMENT
1	可变角反射率 (不含漫反射) Variable Angle Reflectance (Uninlude diffuse reflection)	--	测试入射角 10°、20°、30°、40°、50°、60°、68° 时样品电池片区域 380nm-780nm 波段反射率。 Test the reflectance (380nm-780nm) of cell area of samples at 10°、20°、30°、40°、50°、60°、68° incidence angles.	电池片区域 cell area: 10° : 0.86% 20° : 0.92% 30° : 1.06% 40° : 1.38% 50° : 2.22% 60° : 4.34% 68° : 7.76%	--
备注: REMARKS	-- --				

CPVIT

国家光伏质检中心

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检验检测报告附图或附表

Attached Pictures/Tables

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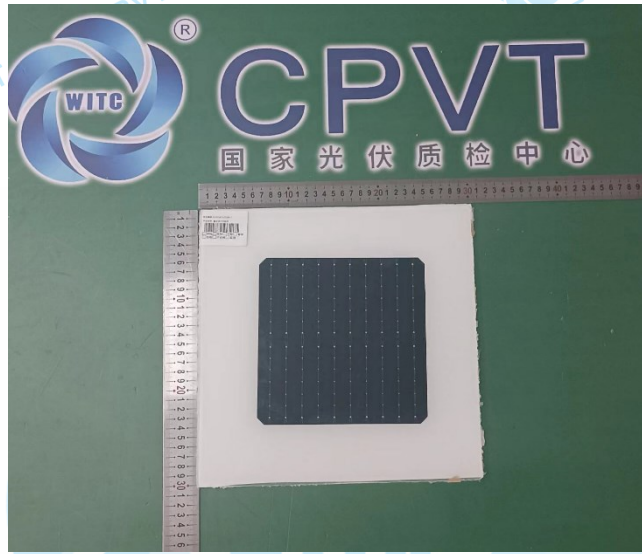


图 1:样品图

Fig. 1:Picture of sample

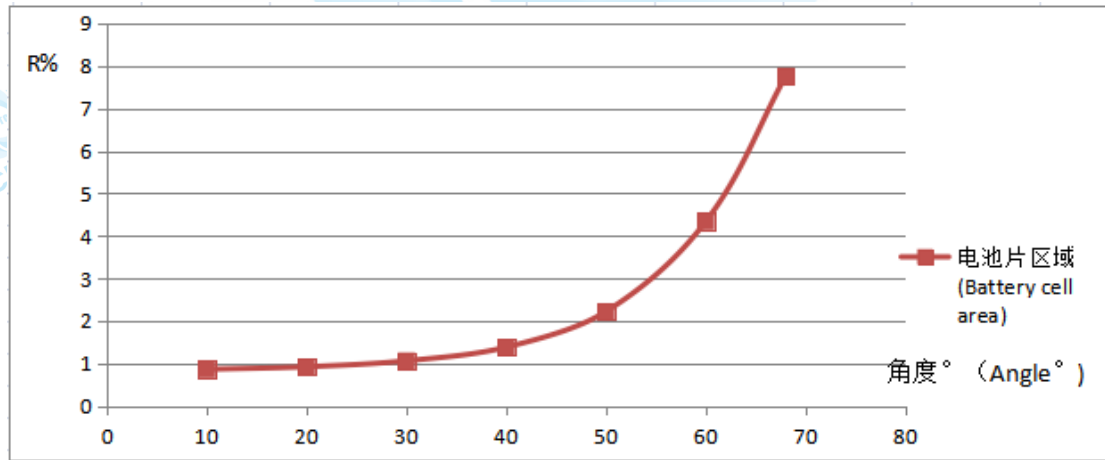


图 2: 可变角反射率 (不包含漫反射) 图

Fig. 2:Picture of Variable Angle Reflectance (Uninclude diffuse reflection)