SHIYU ENERGY

全球优先的光伏项目开发商和光伏组件制造商
EXCELLENT GLOBAL PHOTOVOLTAIC SOLAR
PROJECT DEVELOPER, PANEL MANUFACTURER

jsshiyusolar@163.com

Jiangsu Shiyu Solar Technology Co. , Ltd.
Address: No. 3-6, Weiqi Road, Economic Development Zone, Dongtai City, Jiangsu Province
E-mail: jsshiyusolar@163.com

实禹光电
Shiyu Optoelectronics

全球智慧新能源方案供应商
Global smart new energy solution provider

引领·超越·未来生活
Leading, Transcending, and Future Life

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行业背景
INDUSTRY BACKGROUND

2020年，国家主席习近平同志明确提出，我国力争2030年前实现碳达峰，2060年前实现碳中和，要求我们努力化挑战为机遇，掌握经济发展主动权，优化生活及产业机构，实现凤凰涅槃。

江苏实禹光电正是立足于当下很好的全球行业发展环境，及国家对新能源产业的扶植与建设，企业将积极努力去开拓和发展；

In 2020, President Xi Jinping clearly stated that our country aims to achieve carbon peak before 2030 and carbon before 2060, urging us to turn challenges into opportunities, take the initiative in economic development, optimize the living and industrial structures, and realize theirth of the phoenix. Jiangsu Shiyu Optoelectronics is precisely based on the current favorable global industry development environment and the state's support and of the new energy industry. The enterprise will actively strive to explore and develop.

企业文化
CORPORATE CULTURE

企业愿景
ENTERPRISE VISION

绿色环境与绿色能源和谐可持续发展，为人类建设美好家园。
The harmonious and sustainable development of a green environment and green energy will build a better home for mankind.

企业精神
ENTERPRISE SPIRIT

务实；包容；奉献；效率；创新。
Pragmatic; Inclusive; Devoted; Efficient; Innovative.

核心价值观
CORE VALUES

客户至上；诚信做人；严谨做事；务实创新；合作共赢。
Customer first; Integrity in being; Rigor in doing; Pragmatic innovation; Win-win cooperation.

企业使命

ENTERPRISE MISSION

为客户for customer
提供最优质的的产品
Provide the highest quality products

为公司for company
创造长远利益
Create long-term benefits

为社会for society
创造和谐社会，造绿色环保能源
Create a harmonious society and build green and environmentally friendly energy

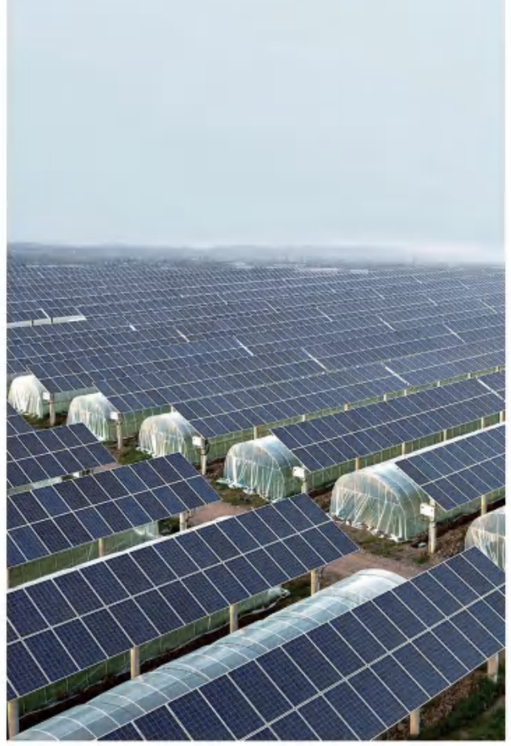
为员工for mate
创造发展空间，提升员工价值，提供工作生活质量。
Create development space, enhance employee value, and provide work life quality

应用领域
APPLICATION

智能光伏
INTELLIGENT PHOTOVOLTAIC

充电桩
INTELLIGENT E-CHARGING TRAVAL

科技农业
AGRIVOLTAIC FARMING



智慧农村
PHOTOVOLTAIC VILLAGE

目录CONTENT

光伏产品
SOLAR MODULE

- 高效发电High Efficiency Solar Modules
- 高品质和技术保证Advanced Technology Patent

光伏系统
SMART POWER STATION SOLUTIONS

- 大型地面电站开发建设PV Power Station Developement And Construction
- 智能优配解决方案Smart Energy System Solution
- 智能分布式能源解决方案Smart Distributed Energy Solutions

企业简介
ENTERPRISE PROFILE

实禹光电成立于2016年，一直在全球新能源领域积极发展和提升，致力于缓解全球气候变暖做出不懈努力，为全球用户提供优质的电站解决方案。截止目前，全球历史出货5GW，为全球用户提供全方面的一站式开发，设计，施工，运维等交钥匙集成解决方案，以及光伏组件售前，售中，售后的品质服务。
组件工厂拥有行业最先进的流水线，组件版型基本涵盖行业的主流版型，并兼容PREC/TOPCON/HJT的组件产品生产；
同时生产版型，覆盖260W-700W各 单/多晶及整/半片组件，具备行业竞争力。

Shiyu Optoelectronics was founded in 2016 and has been actively developing and enhancing itself in the global new field, striving to alleviate global warming. It provides high-quality power station solutions for global users. To date, it has shipped a total of 5GW of worldwide, offering comprehensive turnkey integrated solutions for the development, design, construction, and operation of power plants, as well as pre-sales, mid-sales, and-sales quality services for photovoltaic modules.
The module factory boasts the most advanced production lines in the industry, with module designs that cover the mainstream designs in the and are compatible with the production of PERC/TOPCON/HJT module products. At the same time, the production design covers 260W-700W single/multi-crystalline and full/half-module components, which are competitive in the industry.

5GW +
累计出货Cumulative Shipment

2
生产基地（东台、金湖）
Production Base

100 +
销售地区
Sales District

10 +
专利证书Patent Certificate

10 万 m²
厂房面积
Plant Area

10 +
R&D

品牌历史 化可能为可行
BRAND HISTORY MAKE POSSIBLE POSSIBLE

2016
实禹成立
SHIYU Established

2019
产能有初创的200MW提升至400MW
Production capacity increased from 200MW to 400MW

2022
新增加一条全球领先流水线产能由400MW提升至1GW
The production capacity has been increased from 400MW to 1GW

2023
增加新建新的3.2GW工计划
Establish a new factory with a production capacity of 2.5GW.

2024
目标实现6条全自动的全面量产，实现4GW产品量产
We will have 6 assembly lines, covering all photovoltaic module models in the current industry, with a total production capacity of 3.5GW

2025...
启航未来
Set sail for the future...

全球布局
GLOBAL INDUSTRIAL LAYOUT

全球网络，本土化支持作为中国领先的太阳能组件制造商，我们致力于扩大国内生产、物流、销售和服务网络，以满足全球各地客户的需求。实禹建立了一支拥有 10 多年太阳能行业经验的服务团队，为客户提供响应和解决方案。

As an excellent solar module manufacturer in China, we are committed to expanding our domestic production, logistics, sales, and service network to meet the needs of customers across the country. SHIYU has established a service team with over 10 years of experience in the solar energy industry to provide customers with response and solutions.

5GW+
全球出货量
Global Shipment

4GW+
组件产能
Production Capacity

80%
全球覆盖率
Global Market Coverage

Global Sales and Operations Institutions

-China |Shanghai
-China |Dongtai
-China |Nanjing
-China |Suzhou
-South Africa
-Dubai
-UK
-Italy
-Brazil
-Spain
-Germany
-Pakistan
-Belgium
-Mexico
-Netherlands
-Colombia
-Vietnam
-Chile

Global Production Base

-China |WUXI
-China |Nantong
-China |Anhui
-China |Yancheng
-China |Ulanqab
-Pakistan
-Belgium

Global Warehouse

-Belgium
-Germany
-Brazil
-India
-Spain

生产自动化
AUTOMATIC PRODUCTION

生产流程管理Production Process Management

高效的生产流程控制，关键工序系统化记录追溯管理。

Efficient production process control, systematic record and traceability management of key processes.

先进设备Advanced Equipment

先进的 AI 自动识别功能（串焊前后 EL 层压检验）。

Advanced AI automatic recognition function (EL lamination inspection before and after string welding).

专业员工Professional Employees

P专业，训练有素的员工应对挑战。

rofessional and well-trained employees meet different challenges.

高度自动化Highly Automated

整线节拍≤ 18 秒 / 块；单班产能 1000+

单线人员≤ 28 人；产线尺寸兼容 157-230

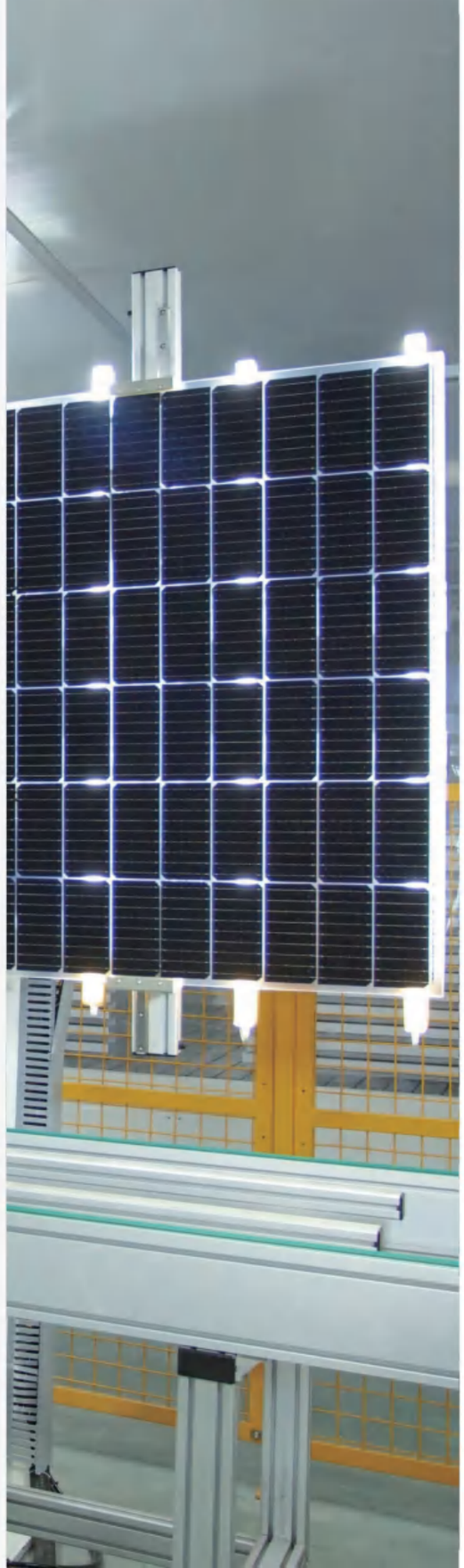
Whole line beat ≤ 18 seconds/pcs; Single shift production capacity of 01000+single line personnel ≤ 28 people; The production line size is compatible with 157-158-166-182--210-230

智能生产Intelligent Production

智能系统能够处理大数据，识别存在但未被发现的问题，揭示并优化可能存在的问题。

Intelligent systems can process big data, identify problems that exist but are not discovered, and reveal and optimize potential problems.

全面质量控制体系
QUALITY CONTROL SYSTEM



1 **全面质量控制Comprehensive Quality Control**

质量控制体系贯穿于整个供应链，所有步骤都进行实时监控。

The quality control system runs through the entire supply chain, and all steps are monitored in real-time.

2 **质量控制认证Quality Control Certification**

拥有最先进的质量控制设备，认证流程、方法、验收标准和专业人员。

We have the most advanced quality control equipment, certification processes, methods, acceptance standards, and professional personnel.

3 **智能质量控制Intelligent Quality Control**

全智能质量控制，实时监控所有设备及流程，任何设定外的偏差将被警告或自动暂停。

Fully intelligent quality control, real-time monitoring of all equipment and processes, and any deviation beyond the setting will be warned or automatically suspended.

4 **数据化质量控制Data Based Quality Control**

所有质量控制数据都将被记录，连接，存储到网络和测试中心，以便今后的分析和追踪。

All quality control data will be recorded, connected, and stored in the network and testing center for future analysis and tracking.

5 **强化质量控制**

Strengthen Quality Control

电池 100% 通过自动化的外观检测、电性能测试，组件 100% 经过外观检测、电性能测试、 EL 测试、安规测试，IPQA 每天进行 64 项次巡检监控，确保生产过程符合控制要求。

The cell 100% automated appearance inspection and electrical performance testing, and the PV module 100% appearance inspection and electrical performance testing EL testing, safety regulation testing, IPQA conducts 64 inspections and monitoring every day to ensure that the production process meets control requirements.

全面的质量信息化管理系统
Establish A Comprehensive Quality Information Management System

卓越制造需要强大的智能化、信息化质量管控系统，基于生产和质量数据，实现多维度综合统计分析及趋势展现，为管理决策提供依据。通过集成 MES 系统生产质量信息实现统计分析，实时监控并支持质量改进。建立统计过程控制系统 (SPC)，在线采集检验数据，利用统计控制图等对质量进行统 计分析及实时监控。通过实施质量信息系统 (QIS)，与MES业务系统集成，打通质量数据链，消除信息孤岛。通过SPC 和预警指标体系的建立，实现现场质量监控 (RTM) 与预警，建立异常触发报警、异常处理、改进的机制。

Outstanding manufacturing requires a powerful intelligent and informatized quality control system, which is based on production and quality data to achieve multi-dimensional comprehensive analysis and trend display, providing a basis for management decision-making. By integrating the MES system production quality information to achieve statistical analysis, real-time monitoring, and support quality improvement. Establish a statistical process control system (SPC) to collect inspection data online, and use statistical control charts and other methods to conduct statistical analysis and-time monitoring of quality. By implementing a quality information system (QIS), which is integrated with the MES business system, the quality data chain is connected, and silos are eliminated. Through the establishment of SPC and warning indicator system, on-site quality monitoring (RTM) and warning are realized, and a mechanism abnormal trigger alarm, abnormal handling, and improvement is established.

产品可追溯管理
Product Traceability Management

产品所有从进料到检验合格出厂，所有流程中的质量监测数据都会记录保存，并存档保留至12 年。根据产品上的条码标签，实现产品可追溯管理

All quality monitoring data from incoming materials to qualified inspection and release of the product are recorded and archived for up to 12 years. Product trace management is realized based on the barcode labels on the products.

质量证书
Quality Certificate

质量管理体系不断引导着企业，透过持续改善方案，朝向零缺点的目标而努力。公司所提供的产品质量获得客户高度肯定，持续符合或超越业界对质量及可靠性的要求。

The quality management system continuously guides the company to strive for the goal of zero defects through continuous improvement initiatives. The quality of the products provided by the is highly recognized by customers, consistentlyeeting or exceeding the industry's requirements for quality and reliability

供应链质量管理
Supply Chain Quality Control Management

公司对于所有材料供货商都定期做深入性稽核 作业，并且宣告了材料供货商须符合的质量系 统要求，以强化先进制程材料供货商出货质量。同时推行创新的统计方法，以较佳的质量 管理来达成扩大制造操作范围（Manufacturing Window）的目标，其应用范围包括原物料、厂务、量测与制程设备、硅片、电池及组件目视 检验允许水平、电性能允许水平及可靠性测试。

The company regularly performs in-depth audits of all material suppliers and has announced the quality system requirements that material suppliers must comply with in order to strengthen the quality of advanced process material suppliers. At the same time, innovative statistical methods are being implemented to achieve the goal of expanding the manufacturing window through better quality control. The application range includes raw materials, utilities, measurement and process equipment, wafers, cells, and component visual inspection acceptance levels, electrical performance acceptance levels, and reliability testing.

先进的 DEKRA 认证实验室
Advanced DEKRA Certification Experiment

公司完善的事件处理及制造质量的控管，横跨了自原物料供应、电池组件制造、实时生产制程监控、测试至可靠性效能等阶段，以保障产品质量。产品故障、材料、电性能、物化学分析在质量控管上扮演着重要的角色。公司积极地投资并建成了全球最先进之一的DEKRA 认证实验室，各类目前行业顶尖的测试和分析设备，全面提升公司的侦测能力和质量控制水平

The company's comprehensive event handling and quality control of manufacturing spans from raw material supply, battery component manufacturing, real-time production process monitoring, testing reliability performance, to ensure product quality. Product failure, material, electrical performance, and physicochemical analysis play an important role in quality control. The company has invested and built one of the world's most advanced DEKRA certified laboratories, with various state-of-the-art testing and analysis equipment in the industry, fully enhancing company's detection capabilities and quality control levels.

全面的质量保障体系

COMPREHENSIVE QUALITY ASSURANCE SYSTEM

所有组件产品均提供 12 年质保，25 年性能质保（双玻产品 30 年质保）；
通过全面的售前售后服务体系，为全球客户提供高品质服务。

All components are provided with **12-Year** product warranty and **25-Year** performance warranty (**30-Year** warranty for double-glass products). Through a comprehensive pre-sale and after-sales service system, we provide high quality service to global customers.

卓越的可靠性
EXCELLENT RELIABILITY

品通过以下第三方机构认证，能够适应多种严苛的地理气候环境。

The product has been certified by the following third-party organizations and can adapt to various harsh geographical and climatic environments.

精细化管理

FINE MANAGEMENT

质检：每一块组件都经过 52 道产品质检。

管控：100% FQC 检查；100% OBA 检验；100% OQC 出货检验。

体系：通过 ISO 9001 质量体系认证；ISO 14001 环境管理体系；
ISO45001 职业健康安全管理体系；SA 8000 社会责任标准，
IEC TS 62941 标准体系。

- Quality inspection: Each solar modules undergoes 64 product inspections.
- Control: 100% FQC inspection; 100% OBA inspection; 100%OQC shipment inspection.
- System: Certified by ISO 9001 quality system; ISO 14001 Environmental Management System; ISO 45001 Occupational Health and Safety Management System; SA 8000 Social Responsibility Standard, IEC TS 62941 Standard System

户用太阳能系统 的最佳选择
THE BEST CHOICE FOR RESIDENTIAL SOLAR ENERGY SYSTEMS

户用分布式 / 工商业分布式 / 大型地面项目

Residential distributed
industrial and commercial distributed large-scale
ground projects

解锁更多应用场景
UNLOCK MORE APPLICATION SCENARIOS
屋顶太阳能系统的最佳选择
The Best Choice For Rooftop Solar Energy Systems

采用M10（182mm）工业标准太阳能电池，特有的高端黑色美学设计与稳定配套供应链，为全球客户带来更多价值和选择。

Adopting M6 (166mm); M10 (182mm) industrial standard solar cells, unique high-end black aesthetic design and stable supporting supply chain, bringing more value and choices to global customers.

推荐应用方案 Recommended Scheme

家庭户用　工商业

PERC 360W

PREC 400W

TOPCON 420W

高效单晶硅单面半片太阳能组件
High Efficient Monocrystalline Half Cell Solar Panels

1 优质电池片技术提升组件功率、效率
High quality cell technology improves module power and efficiency

2 高发电性能
High power generation performance

3 小尺寸版型完美适用建筑场景
The small-sized version is perfect for architectural scenarios

4 超亲水自清洁镀膜技术
Ultra hydrophilic self-cleaning coating technology

应用场景
Application Scenario

户用分布式 Residential Distributed

为美好生活发电
Generating Electricity For A Better Life
- 适配不同屋顶，安装容量最大化
- 合作伙伴赋能机制
- 分布式传播矩阵

工商业分布式 Industrial And Commercial Distribution

让每一栋建筑都能发电
Enables Every Building To Generate Electricity
- 全场性价比最高
- BIPV 解决方案

大型地面项目 Large Ground Projects

光伏电站数字化解决方案
Digital Solution For Photovoltaic Power Plants
- 最优度电成本选择
- 电站全生命周期解决方案

工商业太阳能系统 的最佳选择
INDUSTRIAL COMMERCIAL SOLAR ENERGY SYSTEM

户用分布式 / 工商业分布式 / 大型地面项目

Residential distributed

industrial and commercial distributed

large-scale ground projects

解锁更多应用场景
UNLOCK MORE APPLICATION SCENARIOS

屋顶工商业太阳能系统的最佳选择
The Best Choice For Rooftop Solar Energy Systems

使用高效模块提升项目经济性，全方面满足特 定需求，灵活可靠且易于安装

Using efficient modules to enhance project economy, fully meeting specific needs, flexible, reliable, and easy to install.

推荐应用方案Recommended Scheme

家庭　　工商业

PREC 550W

TOPCON 570W

高效单晶硅单面半片太阳能组件
High Efficient Monocrystalline Half Cell Solar Panels

1 超亲水表面，隔绝脏污，易于维护
Super hydrophilic surface, isolated from dirt and easy to maintain

2 严选材料，极具成本优势
Strict selection of materials with significant cost advantages

3 低温度系数，发电效率明显提升
Low temperature coefficient, significantly improved power generationefficiency

4 多种组件尺寸设计
Multiple size designs

5 *BIPV* 解决方案
BIPV Solution

应用场景Application Scenario

户用分布式 Residential Distributed

为美好生活发电
Generating Electricity For A Better Life
- 适配不同屋顶，安装容量最大化
- 合作伙伴赋能机制
- 分布式传播矩阵

工商业分布式 ndustrial And Commercial Distribution

让每一栋建筑都能发电
Enables Every Building To Generate Electricity
- 全场性价比最高
- BIPV 解决方案

大型地面电站 Large Ground Projects

光伏电站数字化解决方案
Digital Solution For Photovoltaic Power Plants
- 最优度电成本选择
- 电站全生命周期解决方案

大型地面太阳能系统 的最佳选择

THE BEST CHOICE FOR LARGE-SCALE GROUND POWER STATION

户用分布式 / 工商业分布式 / 大型地面项目

Residential distributed

industrial and commercial distributed

large-scale ground projects

解锁更多应用场景
UNLOCK MORE APPLICATION SCENARIOS

大型地面太阳能系统的最佳选择The Best Ground Power Station Systems

输出安全、稳定的绿色能源，极具能源利用效 益与生态环境效益。

Output safe and stable green energy, with great energy utilization efficiency and ecological environment efficiency.

应用Recommended Scheme

工商业　大型地面

PREC 600W　PREC 650-660W　TOPCON 680-690W

高效单晶硅单面半片太阳能组件

High Efficient Monocrystalline Half Cell Solar Panels

1 25/30 年持续发电量保证
Continuous power generation guarantee for 25/30 years

2 适应盐雾沙尘等严苛环境
Fit for harsh environments such as saline-alkali, mist, sand and dust

3 低度电成本，高投资收益
Low electricity cost and high investment return

4 高可靠性与稳定性
High reliability and stability

应用场景Application Scenario

户用分布式 Residential Distributed

为美好生活发电
Generating Electricity For A Better Life
- 适配不同屋顶，安装容量最大化
- 合作伙伴赋能机制
- 分布式传播矩阵

工商业分布式 Industrial And Commercial Distribution

让每一栋建筑都能发电
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大型地面项目 Large Ground Projects

光伏电站数字化解决方案
Digital Solution For Photovoltaic Power Plants
- 最优度电成本选择
- 电站全生命周期解决方案

全球战略合作伙伴
GLOBAL PARTNER

Downer
Relationships creating success
Clēnera
ENERPARC
Scatec Solar
Improving our future™
ACME
TATA
中国三峡
China Three Gorges Corporation
国家电网
STATE GRID
Invenergy
PULSE
de GROENE KLUIS
lightsource bp
amp | India
宏阳
MACRO SOLAR
中国华能
CHINA HUANENG
国家电投
SPIC
SOLATIO
SOPRANO
edp
pon
AVAADA
BOSCH
中国电建
POWERCHINA
China Resources
intelbras
WT ENERGY
MILAN
SUNAGE
CLEANTECH SOLAR
TBEA
XYE
信義能源
北控清洁能源集团有限公司
Belenus
SIRIUS
ReNew POWER
solida
PokretaniSuncem
RAYS
POWER INFRA
中国华电集团公司
CHINAHUADIANCORPORATION
CEEC
中国能建
国家能源集团
CHN ENERGY
FOTUS
IBERDROLA
SOLAR PACK
JGC
FOURTH PARTNER ENERGY
大唐集团公司
CHINA DATANG
中广核 CGN
粤水电

项目案例
PROJECT CASES

Brazil

Brazil

Australia

Japan

项目案例
PROJECT CASES

Japan

Japan

Switzerland

Switzerland

项目案例
PROJECT CASES

Shanxi | Linfen

Shanxi | Linfen

Jiangsu | Siyang

Fujian | Nanping

客户服务
CUSTOMER SERVICE

江苏实禹相信优质的客户服务对于提高客户满意度和忠诚度至关重要，并有助于留下老客户、吸引新客户以及加强与客户之间的合作关系。江苏实禹有着专业的服务团队，为客户提供世界一流的，高品质，高效，专业的售前技术服务支持，售后问题解决方案，培训，咨询和投诉处理，为客户提供最佳的体验。

SHIYU believes that high-quality customer service is crucial for improving customer satisfaction and loyalty, which is conducive to retaining old customers, attracting new customers, and strengthening cooperative relationships with all the customers. With a professional service team, SHIYU provides customers with world-class, high-quality, efficient, and professional pre-sales technical service, after-sales problem solution, training program, consultation, and complaint handling, which brings the best experience to customers.

全球网络，本地支持
Global Network, Local Support

作为世界优秀的晶硅太阳能组件制造商，我们将继续致力于扩大在全球的生产，销售和服务网络，以满足世界各地客户的需求。在各个地区，实禹光电都建成了拥有数十年太阳能行业经验的服务团队，能够以当地语言和与客户相同的时区，提供及时的客服反应及解决方案。

As a world excellent manufacturer of PV modules, we will proceed to expand our global network of production, logistics, sales and service, to meet the demand of customers all over the world. In various regions, SHIYU has built a service team with decades of experiences in PV industry, which is capable of communicating with customers in local languages and providing customers with timely service response and solution just like in the same time zone.

客户满意度调查和投诉管理
Customer Satisfaction Surveys And Complaint Management

江苏实禹非常重视客户的意见和建议。公司每年都进行定期和非定期客户满意度调查，以确保客户需求得到充分的认识和解决。我们每年将会请客户进行网上调查或一对一采访，与此同时，投诉管理系统（CCM）对所有的客户投诉进行 及时梳理，确保提问的及时解决。

SHIYU attaches great importance to customer opinions and suggestions. We conduct regular and irregular customer satisfaction surveys every year, to ensure customer demands are fully figured out and solved. We will invite customers to conduct on-line surveys or one-on-one interviews every year, moreover, the Customer Communication Management (CCM) will timely sort all complaints, to ensure solve the problems timely.

更专业的技术支持
PROFESSIONAL TECHNICAL SUPPORT

经验丰富的工程师团队为您的产品或解决方案保驾护航。
Experienced engineer team provide excellent solution and support for you.

更快的物流运输
FASTER LOGISTICS

作为一个专业的合作伙伴，我们可以将产品运到您的仓库或 直接交付到项目地点。
As a professional partner, deliver our products to your warehouse or directly to the project location.

shiyu solar

The M10 series is of the N-type

SYD120H 475~495W

M10 series of N-type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation.

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

CE · CQC · DEKRA

Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee

shiyu solar

Electrical parameters@STC SYD120H 475~495W

Maximum power	Pmax(Wp)	475	480	485	490	495
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	36.96	37.13	37.30	37.47	37.65
Maximum power current	Imp (A)	12.85	12.93	13.00	13.07	13.15
Open circuit voltage	Voc(V)	43.51	43.68	43.85	44.02	44.19
Short circuit current	Isc(A)	13.60	13.65	13.70	13.75	13.82
Component efficiency	(%)	22.01	22.24	22.47	22.71	22.94

STC: irradiance 1000W/m², component temperature 25℃, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	360	363	367	371	375
Maximum power voltage	Vmp(V)	35.58	35.74	35.90	36.07	36.24
Maximum power current	Imp(A)	10.09	10.15	10.20	10.26	10.32
Open circuit voltage	Voc(V)	41.38	41.54	41.71	41.87	42.03
Short circuit current	Isc(A)	10.71	10.74	10.78	10.82	10.88

NMOT: irradiance of 800W/m², ambient temperature of 20℃, atmospheric mass of 1.5 , wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	1903×1134×30mm
Component weight	22.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

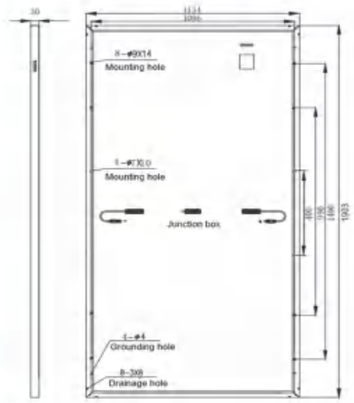
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	25A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 ℃

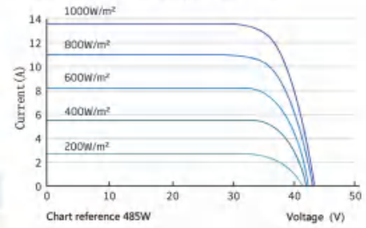
Packaging information

Single package	36piece
40 high cabinet/17.5m car	864/1224piece

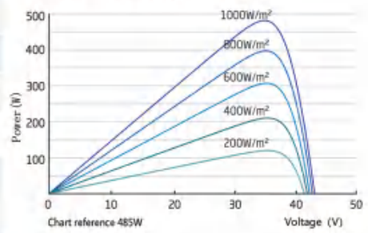
Component size(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

Jiangsu Shiyu Photoelectric Technology Co., LTD
Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province
Email address: jsshiyusolar@163.com

shiyu solar

The M10 series is of the N-type

SYD144H 575~595W

M10 series of N-type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation.

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

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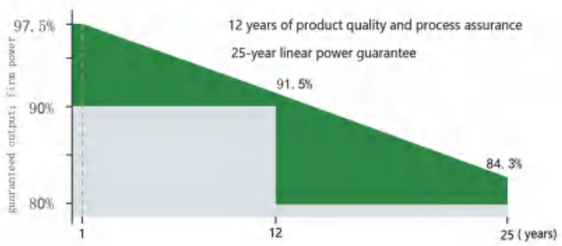
Product guarantee



shiyu solar

Electrical parameters@STC SYD144H 575~595W

Maximum power	Pmax(Wp)	575	580	585	590	595
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	44.83	45.03	45.23	45.43	45.60
Maximum power current	Imp (A)	12.83	12.90	12.94	13.00	13.05
Open circuit voltage	Voc(V)	52.60	52.80	53.00	53.20	53.40
Short circuit current	Isc(A)	13.46	13.50	13.54	13.58	13.95
Component efficiency	(%)	22.26	22.45	22.65	22.84	23.03

STC: irradiance 1000W/m², component temperature 25℃, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	435	439	443	447	450
Maximum power voltage	Vmp(V)	43.15	43.34	43.54	43.73	43.89
Maximum power current	Imp(A)	10.08	10.12	10.16	10.21	10.24
Open circuit voltage	Voc(V)	50.03	50.22	50.41	50.60	50.79
Short circuit current	Isc(A)	10.59	10.63	10.66	10.69	10.98

NMOT: irradiance of 800W/m², ambient temperature of 20℃, atmospheric mass of 1.5 , wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	22.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

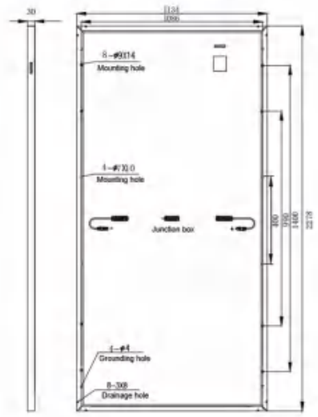
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	25A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 ℃

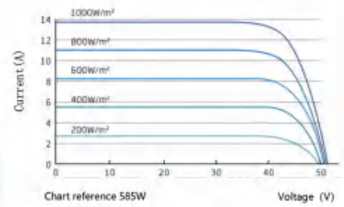
Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/ 1080piece

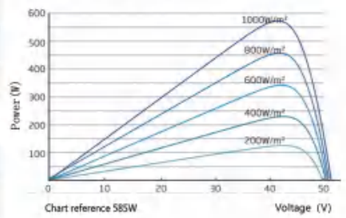
Component size(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

Jiangsu Shiyu Photoelectric Technology Co., LTD
Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province
Email address: jsshiyusolar@163.com

shiyu solar

M10 series N-type double glass

SYD120H 470~490W

M10 series N-type TOPCon double glass

Using N-Type TOPCon battery technology, through the multi-main gate and half-chip component technology integrated together, with double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

CE, CQC, DEKRA certified

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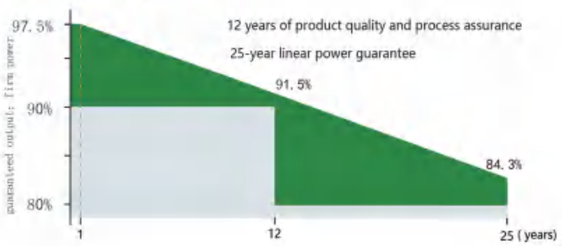
Product guarantee



shiyu solar

Electrical parameters@STC SYD120H 470~490W

Maximum power	Pmax(Wp)	470	475	480	485	490
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	35.03	35.19	35.35	35.51	35.67
Maximum power current	Imp (A)	13.42	13.50	13.58	13.66	13.74
Open circuit voltage	Voc(V)	42.35	42.51	42.68	42.85	43.02
Short circuit current	Isc(A)	14.16	14.24	14.32	14.40	14.48
Component efficiency	(%)	21.78	22.01	22.24	22.47	22.71

STC: irradiance 1000W/m², componenttemperature 25℃, atmospheric mass 1.5.

Back Gain@BSTC(Take 480W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(Wp)	504	528	552	576	600
Maximum power voltage	Vmp(V)	35.35	35.35	35.35	35.35	35.35
Maximum power current	Imp(A)	14.26	14.94	15.62	16.29	16.97
Open circuit voltage	Voc(V)	42.68	42.68	42.68	42.68	42.68
short circuit current	Isc(A)	15.04	15.75	16.47	17.18	17.90

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25℃.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	1903×1134×30mm
Component weight	25kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

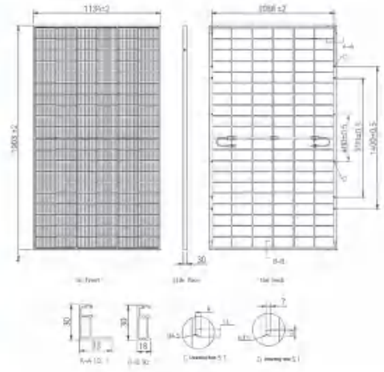
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 ℃

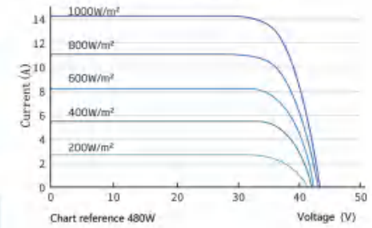
Packaging information

Single package	36piece
40 high cabinet/17.5m car	864/1224piece

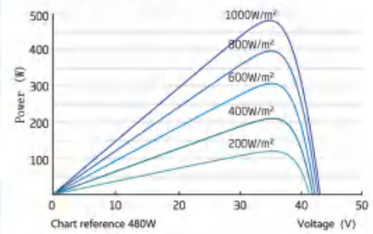
Component size(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

Jiangsu Shiyu Photoelectric Technology Co., LTD
Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province
Email address: jsshiyusolar@163.com

shiyu solar

M10 series N-type double glass

SYD144H 570~590W

M10 series N-type TOPCon double glass

Using N-Type TOPCon battery technology, through the multi-main gate and half-chip component technology integrated together, with double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

CE · CQC · DEKRA certified

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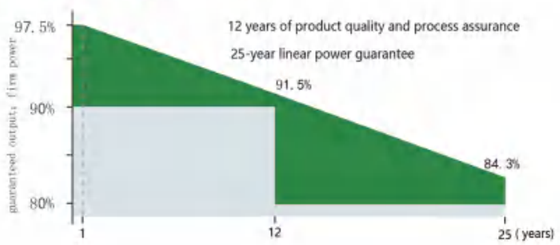
Product guarantee



shiyu solar

Electrical parameters@STC SYD144H 570~590W

Maximum power	Pmax(Wp)	570	575	580	585	590
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	43.59	43.76	43.93	44.10	44.27
Maximum power current	Imp (A)	13.08	13.14	13.21	13.27	13.33
Open circuit voltage	Voc(V)	51.90	52.10	52.30	52.50	52.70
Short circuit current	Isc(A)	13.75	13.80	13.85	13.90	13.95
Component efficiency	(%)	22.07	22.26	22.45	22.65	22.84

STC: irradiance 1000W/m², componenttemperature 25℃, atmospheric mass 1.5.

Back Gain@BSTC (Take 580W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	609	638	667	696	725
Maximum power voltage	Vmp(V)	43.93	43.93	43.93	43.93	43.93
Maximum power current	Imp(A)	13.86	14.52	15.18	15.84	16.50
Open circuit voltage	Voc(V)	52.30	52.30	52.30	52.30	52.30
short circuit current	Isc(A)	14.54	15.24	15.93	16.62	17.31

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25℃.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	22.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

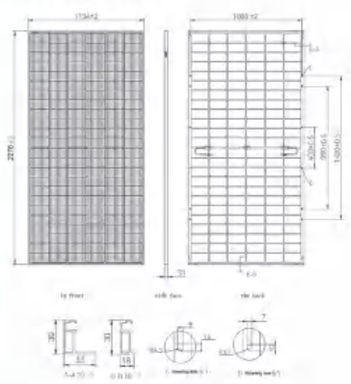
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 ℃

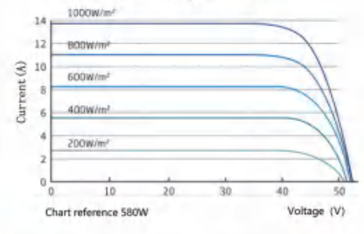
Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/ 1080piece

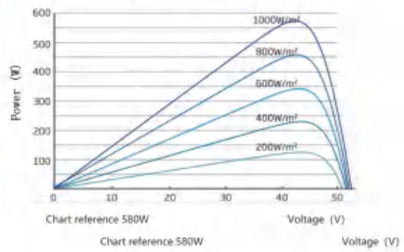
组件尺寸(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

Jiangsu Shiyu Photoelectric Technology Co., LTD

Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province

Email address: jsshiyusolar@163.com

shiyu solar

Rectangular series N type

SYD132H 605~625W

Rectangular series (182 * 210) type N type TOPCon

Using N-Type TOPCon battery technology, the multi-main gate and half-chip component technology fuse together to make its components have better reliability and lower attenuation

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

CE · CQC · DEKRA certified

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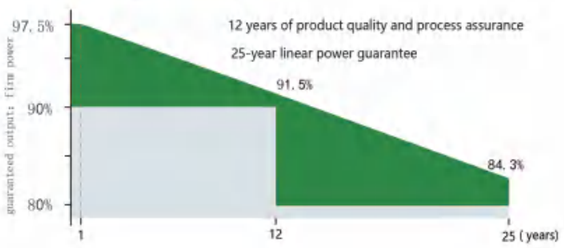
Product guarantee



shiyu solar

Electrical parameters@STC SYD132H 605~625W

Maximum power	Pmax(Wp)	605	610	615	620	625
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.65	40.85	41.05	41.25	41.45
Maximum power current	Imp (A)	14.89	14.94	14.99	15.04	15.08
Open circuit voltage	Voc(V)	47.60	47.80	48.00	48.20	48.40
Short circuit current	Isc(A)	15.80	15.85	15.90	15.95	16.00
Component efficiency	(%)	22.40	22.58	22.77	22.95	23.14

STC: irradiance 1000W/m², component temperature 25℃, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	455	459	462	466	470
Maximum power voltage	Vmp(V)	37.86	38.06	38.19	38.39	38.62
Maximum power current	Imp(A)	12.02	12.06	12.10	12.14	12.17
Open circuit voltage	Voc(V)	45.22	45.41	45.60	45.79	45.98
Short circuit current	Isc(A)	12.76	12.80	12.84	12.88	12.92

NMOT: irradiance of 800W/m², ambient temperature of 20℃, atmospheric mass of 1.5 , wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.29%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.25%/℃
Short-circuit current (ISC) temperature coefficient	+0.046%/℃

Mechanical parameters

Battery type	N-TOPCon 182×91mm
Component size (length×width×height)	2382×1134×30mm
Component weight	28kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

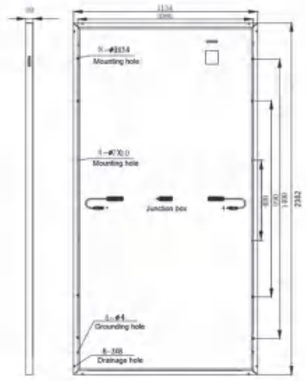
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	25A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 ℃

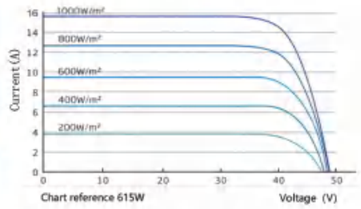
Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/1008piece

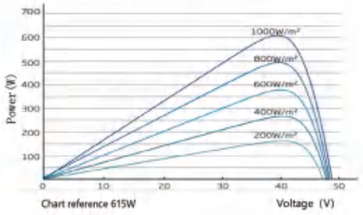
Component size(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

Jiangsu Shiyu Photoelectric Technology Co., LTD
Address: No.3-6, Weiqi Road, Dongtai Development Zone, Jiangsu Province
Email address: jsshiyusolar@163.com

shiyu solar

The M10 series of the P type

SYD144H 540~560W

M10 series

The 182mm battery is integrated through multi-main gate and half piece component technology, M10 component combined with innovative technology, effectively improve the efficiency of the component and output power.

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

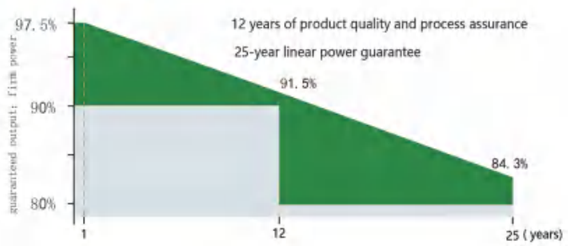
Product authentication

CE · CEC · DEKRA Certified

Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

Shiyu photoelectric adopts rigorous design, advanced production technology and automatic equipment manufacturing components , at the same time, strict quality inspection standards, continuous pursuit of zero defects, to ensure that our solar module products have excellent power output and high reliability.

Product guarantee



shiyu solar

Electrical parameters@STC SYD144H 540~560W

Maximum power	Pmax(Wp)	540	545	550	555	560
Power tolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.70	40.80	40.90	40.99	41.09
Maximum power current	Imp (A)	13.27	13.36	13.45	13.54	13.63
Open circuit voltage	Voc(V)	49.42	49.52	49.62	49.72	49.82
Short circuit current	Isc(A)	13.85	13.94	14.03	14.12	14.21
Component efficiency	(%)	20.90	21.10	21.29	21.48	21.68

STC: irradiance 1000W/m², component temperature 25℃, atmospheric mass 1.5.

Electrical parameters@NMOT

Maximum power	Pmax(Wp)	402	405	409	413	417
Maximum power voltage	Vmp(V)	38.08	38.25	38.42	38.59	38.69
Maximum power current	Imp(A)	10.55	10.60	10.65	10.70	10.77
Open circuit voltage	Voc(V)	46.65	46.74	46.84	46.93	47.02
Short circuit current	Isc(A)	11.19	11.26	11.33	11.40	11.48

NMOT: irradiance of 800W/m², ambient temperature of 20℃, atmospheric mass of 1.5 , wind speed of 1m/s.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/℃
Open-circuit voltage (VOC) temperature coefficient	-0.26%/℃
Short-circuit current (ISC) temperature coefficient	+0.05%/℃

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	27kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

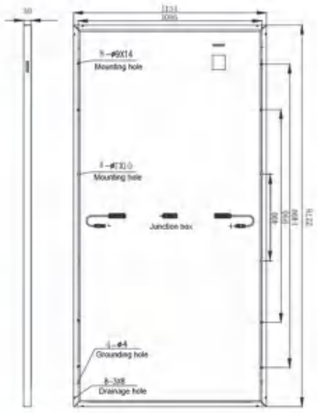
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85 ℃
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	25A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3 ℃

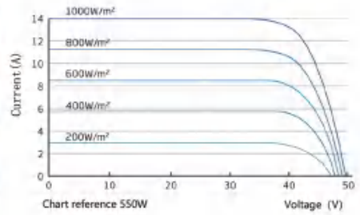
Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/1080piece

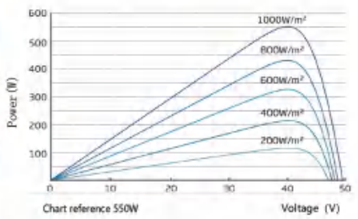
Component size(mm)



current-voltage curve



Power-voltage curve



*Power test tolerance ±3%
*No further notice upon the change of product specifications

Information column

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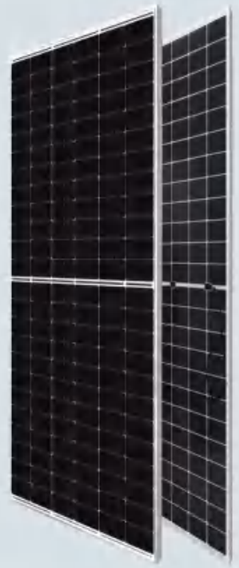
Email address: jsshiyusolar@163.com

shiyu solar

M10 series P-type double glass

SYD144H 535~555W



M10 series

The 182mm cell is integrated through multi-main gate and half-chip module technology, M10 double glass module combined with innovative technology and double-sided power generation technology (up to 25%), effectively improve the component efficiency and output power.

Product features

- 1500V — Higher system voltage, effectively reduce the BOS costs
- Lower operating temperature and temperature coefficient, to obtain higher returns
- Significantly reduced thermal spot temperature and shadow shading effects
- Half-sheet design to obtain better mechanical loading performance
- Can withstand harsher conditions

Management system

ISO9001:2015
ISO14001:2015
ISO45001:2018

Product authentication

CE · CQC · DEKRA certified

Shiyu optoelectronics is a leading professional production and service provider of solar photovoltaic cells and modules, products are widely used in residential, commercial and ground photovoltaic power generation systems, the first phase of the plant has an annual output of 1.0GW of modules.

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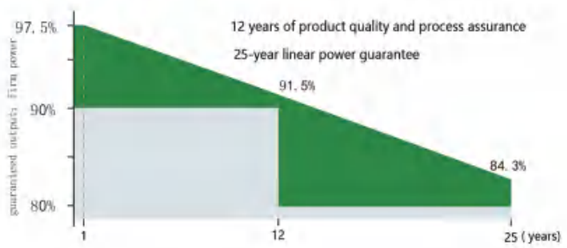
Product guarantee



shiyu solar

Electrical parameters@STC SYD144H 535~555W

Maximum power	Pmax(Wp)	535	540	545	550	555
Powertolerance	(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum power voltage	Vmp (V)	40.94	41.13	41.32	41.51	41.70
Maximum power current	Imp (A)	13.07	13.13	13.19	13.25	13.31
Open circuit voltage	Voc(V)	49.54	49.73	49.92	50.11	50.30
Short circuit current	Isc(A)	13.83	13.89	13.95	14.01	14.07
Component efficiency	(%)	20.71	20.90	21.10	21.29	21.48

STC: irradiance 1000W/m², componenttemperature 25℃, atmospheric mass 1.5.

Back Gain@BSTC (Take 545W)

Back gain		5%	10%	15%	20%	25%
Maximum power	Pmax(WP)	572	600	627	654	681
Maximum power voltage	Vmp(V)	41.32	41.32	41.32	41.32	41.32
Maximum power current	Imp(A)	13.84	14.52	15.17	15.83	16.48
Open circuit voltage	Voc(V)	49.92	49.92	49.92	49.92	49.92
short circuit current	Isc(A)	14.64	15.35	16.04	16.74	17.44

BSTC (double-sided standard test environment): 1000W / m², 135W / m², atmospheric mass 1.5, ambient temperature 25℃.

Temperature coefficient

Maximum power (Pmax) temperature coefficient	-0.34%/℃
Open-circuitvoltage (VOC) temperature coefficient	-0.26%/℃
Short-circuit current (ISC) temperature coefficient	+0.05%/℃

Mechanical parameters

Battery type	PERC 182×91mm
Component size (length×width×height)	2278×1134×30mm
Component weight	31.5kg
Bezel material	Anodized aluminum alloy
Junction box	Ip68
Cable diameter / length	4mm²/300mm

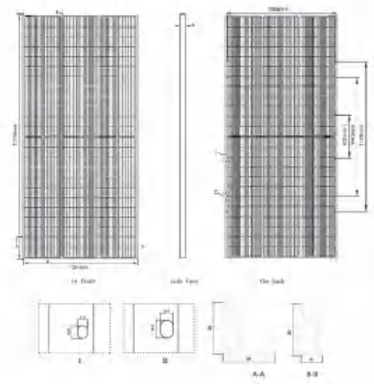
Operation requirement

Maximum system voltage	1500V DC
Operating temperature	-40~+85
Maximum wind load / snow load	2400/5400 Pa
Maximum protection current	30A
Application level	ClassA
Fire-protection rating	ClassC
Nominal component operating temperature	42±3

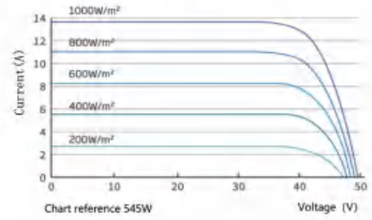
Packaging information

Single package	36piece
40 high cabinet/17.5m car	720/1080piece

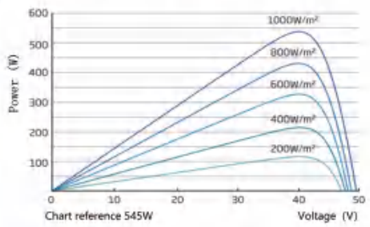
组件尺寸(mm)



current-voltage curve



Power-voltage curve



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THANK YOU