



浙江金诺新能源科技有限公司  
ZHEJIANG KINGDOM SOLAR ENERGY TECHNIC CO.,LTD.

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ZHEJIANG KINGDOM Germany Sub-COMPANY  
Kingdom Solar GmbH  
Add: Kingdom Solar GmbH Pirckheimerstr. 68 90408 Nürnberg



# LET THE SUN

change lives 让阳光改变生活



浙江金诺新能源科技有限公司  
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## Company profile

Zhejiang Kingdom Solar Energy Technic Co., Ltd. is one of the most dynamic and promising solar manufacturing company in China. We have an annual production capacity of 300MW for crystalline silicon of solar photovoltaic cells, 300MW solar modules, photovoltaic systems and other related product, carrying out TUV, ETL, CE, ISO9001, 14001, OHSAS 18001:2007, IEC 61215 and CEC quality certification strictly. Kingdom solar's wattage ranges from 5W to 310W, both mono and poly. We can assure 10 years limited warranty on materials and workmanship, 10 years limited warranty for 90% power output, 25 years limited warranty for 80% power output.

Continuous improvement and innovation on providing clean and affordable solar PV products enable us export them world-wide, such as United States, Europe, Middle East, Japan, etc. Especially, we have achieved the highest quality level in PV industry, which helps us gain long-term cooperation relationships with famous international companies.

Kingdom put the quality in the most important position as one's life, overall sales, continuous improvement, and sustainable innovation both at home and abroad, will create a greener, more environmental future.

## 公司简介

浙江金诺新能源科技有限公司是集开发、销售太阳能新能源为一体的企业，是中国太阳能新能源制造工厂中最具活力和最具潜力的一员，位于浙江省临海市江南开发区。本公司专业生产晶体硅太阳能光伏电池、太阳能组件、光伏发电系统工程以及光伏应用产品的研发、制造，严格执行并通过TUV, ETL, CE, ISO9001, 14001, OHSAS18001:2007, IEC 61215等质量标准，并有澳大利亚市场CEC的列名。本公司生产从5W到310W太阳能晶体硅组件以及单、多晶硅电池片，组件和电池片的年生产能力各为300MW。公司产品质量已达到行业最高标准，保证材料和工艺的原因造成的损坏，10年内免费维修；投保苏黎世保险；组件功率10年内保证90%以上最大输出功率，25年内保证80%以上最大输出功率。公司实力雄厚，设备先进。

金诺新能源属国家重点支持的高新技术企业。企业内部设有高新技术研发中心。企业信誉良好，公司产品先后获得“浙江省省级新产品”、“浙江省出口名牌”等一系列荣誉称号。金诺光伏研究开发的“正电极分段式太阳能电池产品（编号20110586）”“双玻太阳能电池组件（编号201104HD0001）”，金诺新能源生产的高效太阳能电池组件被国家确定为国际援外太阳能发电项目供应商之一。

金诺公司视质量如生命，并会结合国内外整体销售，不断进取、持续创新，为地球创造一个更绿色、更环保的未来。



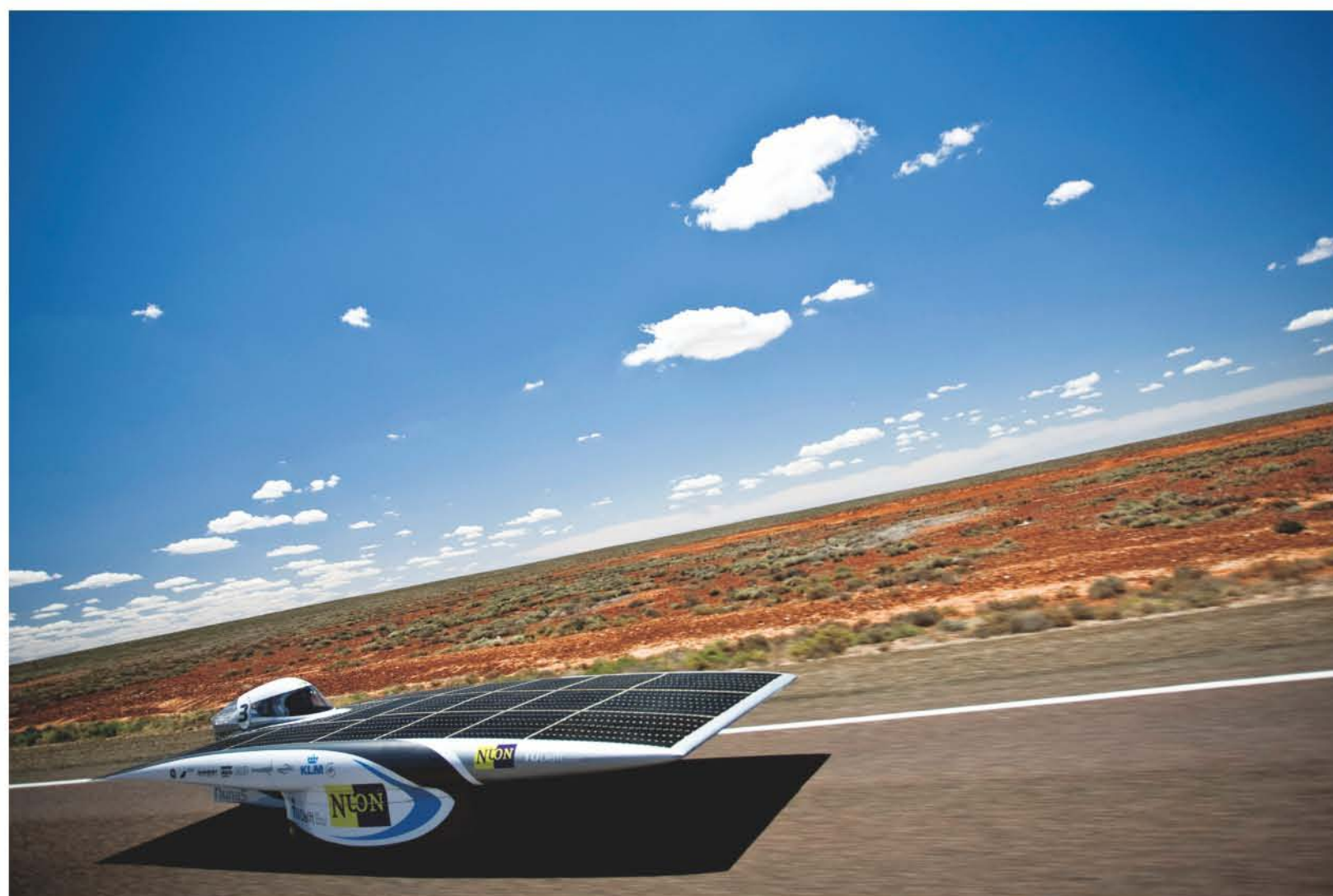


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2003

2003年金诺工艺品有限公司成立，主营产品圣诞球  
JINNUO Craftwork CO.,Ltd established & managed in Christmas Balls.

2005

2005年开发全球市场，首先打开欧洲和美国市场  
To develop global market, firstly open the sales door to Europe and US for trial.

2007

2007年厂房扩充至50000平方，年产值达5千万  
Built 50000 m workshop, output amount reached 50million.d in Christmas Balls.

2009

2009年的年产量是2007年的两倍，金诺开始进军太阳能光伏组件行业  
Out put doubled than 2007, KDM found and began to enter PV solar panel industry.

2011

2011年团队合作良好、管理有序，全球战略发展迅猛，销售产值达到2.5亿元人民币  
Team work well-operated, Adminstration well-managed, global strategy developed, sales output reached RMB250million.

2013

2013年台州市金日电子有限公司成立，致力于太阳能草坪灯的生产销售  
TAIZHOU KING SUN Electronic CO.,Ltd established, Enter the lamps and lanterns industry.

2015

2015年新工厂成立并开始生产，年销售产值超过3.5亿元  
New factory accomplished and started production, company earn more experience and strength, sales output over 350million



# Kingdom Solar Certifications lists/Our Honors

## 金诺产品认证/企业荣誉



**企业荣誉** Company honours  
GLORIES WITNESS STRENGTH  
AND STRENGTH WITNESSES MAGNIFIC  
荣誉见证实力，实力见证辉煌



### Member of CEC

CEC: Certificate for electric and mechanical products approved in Australia.  
CEC:澳大利亚电气和机械产品批准证书



### Mono/Poly TUV

Certificate of highest quality standard for European market  
TUV欧洲市场的最高质量标准证书



### ISO 9000/14000

An International Standard for Quality control and assurance  
ISO 国际标准的质量控制和保证



### IEC

Standard electric normal criterion formulated by International Electrical Commission  
IEC国际电工委员会制定的标准电正常标准



### EU

A recycling program for end-of-life-modules that take responsibility for PV modules throughout their entire value chain  
回收计划，负责贯穿光伏组件整个价值链的废弃组件的回收



### CE

Products with CE can be sold in countries of European Union  
CE 产品可以销往欧盟国家



### Insurance

A famous insurance agent offers indemnity against losses on product's quality and performance  
Zurich著名的保险代理提供产品的质量和性能损失赔偿



### USA CER.

Certificate for electric and mechanical products approved in United States and Canada  
ETL美国和加拿大的电气和机械产品批准证书



### Japan CER.

Certificate for electric and mechanical products approved in Japan.  
J-PEC日本的电气和机械产品批准证书



### EU

For UK market  
此证书适应英国市场

### Module Basic Parameter 组件的基本参数

TEST CONDITION: 测试条件 : 1000w/m<sup>2</sup>, AM1.5, 25°C

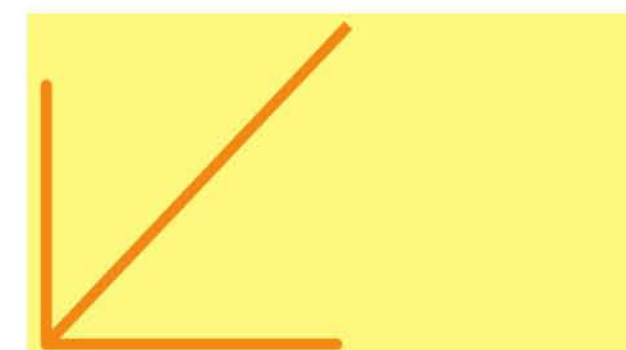
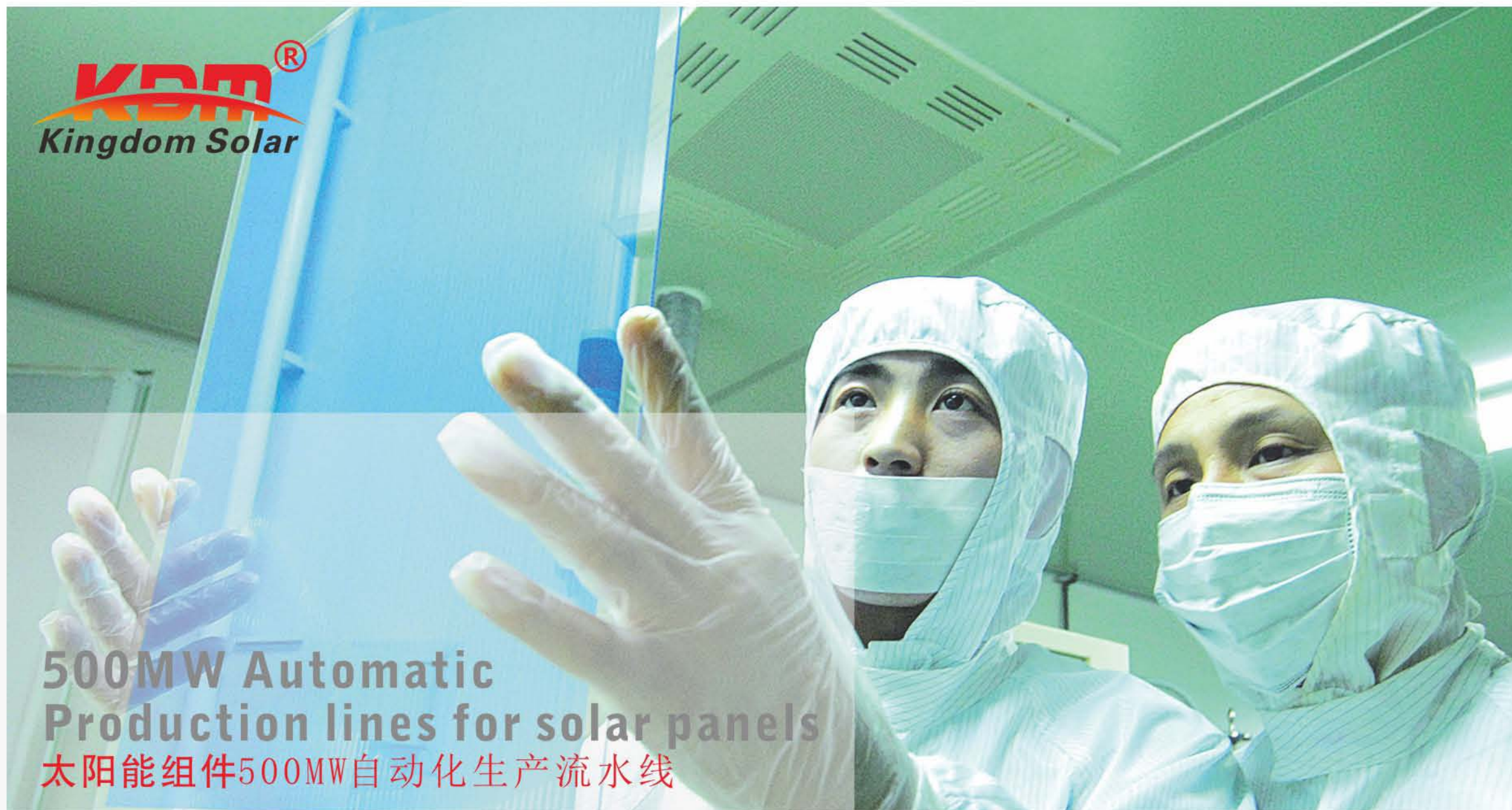
|                        |                  |
|------------------------|------------------|
| Insulation 绝缘          | ≥100MOhm         |
| Voltage standoff 电压的对峙 | AC2500V, DC3600V |
| Wind Velocity 风速       | 290km/h          |
| Mechanical load 机械负荷   | 5400Pa           |



# Solar Panels

## 太阳能组件车间与设备

5-6 **KDM**  
Kingdom Solar



**Advanced equipment, new  
and hi-tech persons**  
先进设备，高新技术人才

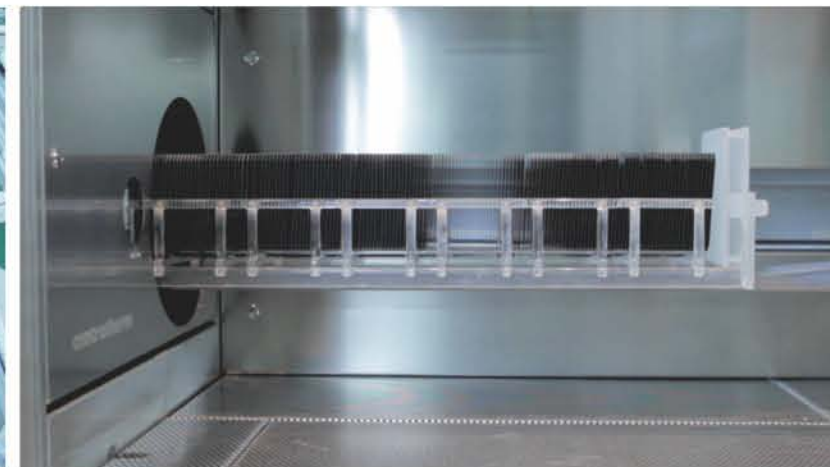
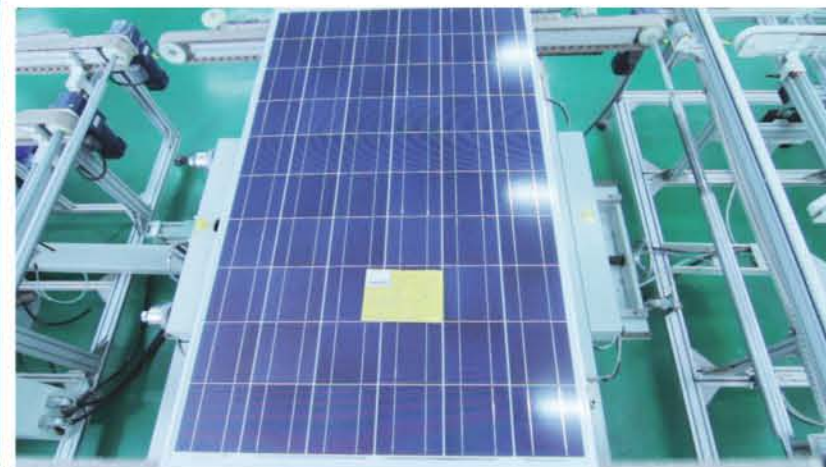


# Solar Panels

## 太阳能组件车间与设备

7-8 KDM<sup>®</sup>  
Kingdom Solar

The Most Advanced  
Automatic Equipments  
最先进的全自动设备





# Solar Power Station

## 太阳能发电站

9-10 **KDM**  
Kingdom Solar

**KDM**  
Kingdom Solar

Module type 组件型号 : KD-P250  
System size 电站工程量 : 4MW

Module type 组件型号 : KD-P250  
System size 电站工程量 : 450kw

Module type 组件型号 : KD-P250  
System size 电站工程量 : 800kw

Module type 组件型号 : KD-P250  
System type 系统样式  
Ground-mounted & Roof-mounted 地面安装和屋顶安装

Module type 组件型号 : KD-P250  
System size 电站工程量 : 4.7MW  
System type 系统样式  
Ground-mounted 地面安装

Module type 组件型号 : KD-P250  
System type 系统样式  
Ground-mounted & Roof-mounted 地面安装和屋顶安装



solar power station  
各地案例





## 高质量太阳能组件 High Quality Solar Panel KD-M100W--120W

### 型号 Module type:

KD-M100W, KD-M105W, KD-M110W, KD-M115W, KD-M120W

### 组件最高功率 Highest module efficiency:

16.0%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0~+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

#### ZHEJIANG KINGDOM SOLAR ENERGY TECHNIC CO.,LTD

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#### ZHEJIANG KINGDOM GERMANY Sub-COMPANY Kingdom Solar GmbH

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## 规格 Specifications

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| Type 型号                                   | KD-M100  | KD-M105 | KD-M110 | KD-M115 | KD-M120 |
|---|--|---------|---------|---------|---------|
| Wattage(w) 瓦数                             | 100  | 105     | 110     | 115     | 120     |
| Open Circuit Voltage (V) 开路电压             | 22.71  | 23.48   | 22.68   | 22.85   | 23.04   |
| Short circuit Current (I) 短路电流            | 5.79   | 5.99    | 6.27    | 6.63    | 6.75    |
| Maximum Power Voltage (V) 最大输出电压          | 18.25  | 18.53   | 18.45   | 18.64   | 18.75   |
| Maximum Power Current (I) 最大输出电流          | 5.48   | 5.67    | 5.96    | 6.17    | 6.41    |
| Cell Efficiency (%) 电池片效率                 | 17.40%   | 18.30%  | 16.80%  | 17.50%  | 18.20%  |
| Module Efficiency (%) 组件效率                | 14.80%   | 15.54%  | 14.59%  | 15.25%  | 15.94%  |
| Maximum System Voltage (V) 最大系统电压         | DC1000V  |         |         |         |         |
| Temperature Coefficient of Voc VOC温度系数    | -0.270%/°C   |         |         |         |         |
| Temperature Coefficient of Isc Isc温度系数    | +0.045%/°C   |         |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数  | -0.408%/°C   |         |         |         |         |
| Maximum Series Fuse Rating 最大串联保险丝额定电流(A) | 10A  |         |         |         |         |
| Junction Box 接线盒                          | with 2bypass diodes                                  |         |         |         |         |
| Cable 电缆                                  | Length 900mm, 4mm <sup>2</sup>                       |         |         |         |         |
| Tempered Glass 钢化玻璃                       | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |         |         |
| Cell Encapsulation 电池片封装                  | EVA (Ethylene-Vinyl-Acetate)                         |         |         |         |         |
| Back Sheet 背板                             | Triple-layer 三层                                      |         |         |         |         |
| Frame 边框                                  | Anodized aluminum alloy 铝合金                          |         |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷      | 5400Pa   |         |         |         |         |
| Hail 撞击                                   | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |         |         |
| Temperature Range 温度范围                    | -40°C to +85°C                                       |         |         |         |         |

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## 高质量太阳能组件 High Quality Solar Panel KD-M150W--160W

### 型号 Module type:

KD-M150W, KD-M155W, KD-M160W

| 装柜量<br>Packing Configuration  | 30mm边框<br>30mmFrame |      |      |
|-------------------------------|---------------------|------|------|
| Container 集装箱                 | 20FT                | 40GP | 40HQ |
| Pieces per pallet 每托盘数量       | 96                  | 96   | 100  |
| Pallets per container 每集装箱托盘数 | 7                   | 15   | 15   |
| Pieces per container 每集装箱数量   | 672                 | 1440 | 1500 |

### 组件最高功率 Highest module efficiency:

16.11%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0-+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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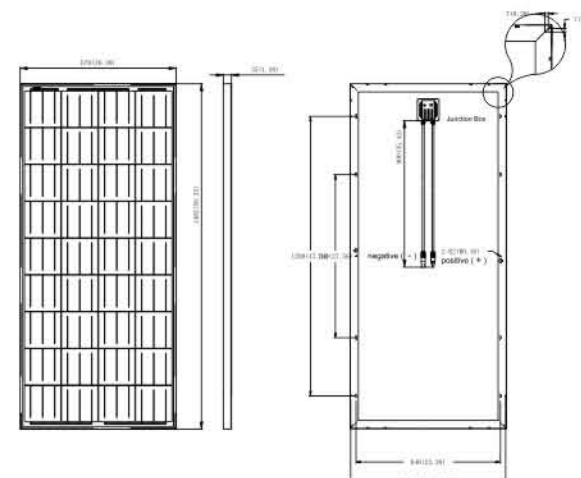
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## 规格 Specifications

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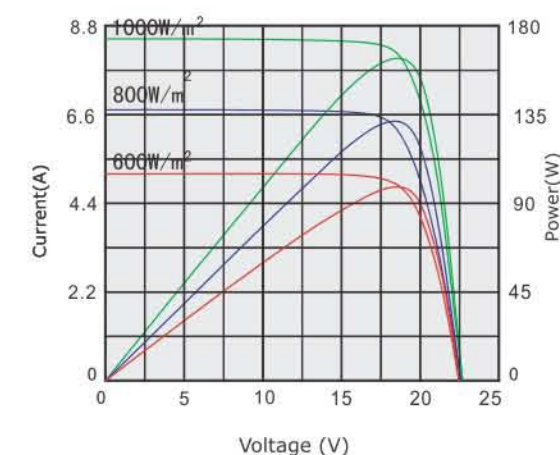
| Type 型号                                  | KD-M150  | KD-M155 | KD-M160 |
|--|--|---------|---------|
| Wattage(w) 瓦数                            | 150  | 155     | 160     |
| Open Circuit Voltage (V) 开路电压            | 22.31  | 22.47   | 22.75   |
| Short circuit Current (I) 短路电流           | 8.55   | 8.64    | 8.84    |
| Maximum Power Voltage (V) 最大输出电压         | 18.81  | 18.88   | 18.90   |
| Maximum Power Current (I) 最大输出电流         | 7.97   | 8.21    | 8.46    |
| Cell Efficiency (%) 电池片效率                | 17.40%   | 18.00%  | 18.60%  |
| Module Efficiency (%) 组件效率               | 15.10%   | 15.61%  | 16.11%  |
| Maximum System Voltage (V) 最大系统电压        | DC1000V  |         |         |
| Temperature Coefficient of Voc VOC温度系数   | -0.270%/°C   |         |         |
| Temperature Coefficient of Isc Isc温度系数   | +0.045%/°C   |         |         |
| Temperature Coefficient of Pmax Pmax温度系数 | -0.408%/°C   |         |         |
| Maximum Series Fuse Rating最大串联保险丝额定电流(A) | 10A  |         |         |
| Number of Cells 电池片数量                    | 4x9(156mmx156mm)                                     |         |         |
| Junction Box 接线盒                         | with 2bypass diodes                                  |         |         |
| Cable 电缆                                 | Length 900mm, 4mm <sup>2</sup>                       |         |         |
| Tempered Glass 钢化玻璃                      | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |
| Cell Encapsulation 电池片封装                 | EVA (Ethylene-Vinyl-Acetate)                         |         |         |
| Back Sheet 背板                            | Triple-layer 三层                                      |         |         |
| Frame 边框                                 | Anodized aluminum alloy 铝合金                          |         |         |
| Dimension 尺寸                             | 1482x670x30mm(58.34x26.38x1.18inches)                |         |         |
| Maximum Surface Load Capacity 最大表面负荷     | 5400Pa   |         |         |
| Hail 撞击                                  | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |
| Temperature Range 温度范围                   | -40°C to +85°C                                       |         |         |
| Weight 重量                                | 10.5Kg(23.1lbs)                                      |         |         |

### 物理特性 单位:毫米(英寸) PHYSICAL CHARACTERISTICS Unit:mm(inch)



### 电气参数 ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)







## 高质量太阳能组件 High Quality Solar Panel KD-M190W--210W

### 型号 Module type:

KD-M190W, KD-M195W, KD-M200W,  
KD-M210W.

| 装柜量<br>Packing Configuration  | 35mm边框<br>35mmFrame |      |      |
|-------------------------------|---------------------|------|------|
| Container 集装箱                 | 20FT                | 40GP | 40HQ |
| Pieces per pallet 每托盘数量       | 60                  | 60   | 66   |
| Pallets per container 每集装箱托盘数 | 6                   | 16   | 16   |
| Pieces per container 每集装箱数量   | 480                 | 960  | 1056 |

### 组件最高功率 Highest module efficiency:

15.67%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0~+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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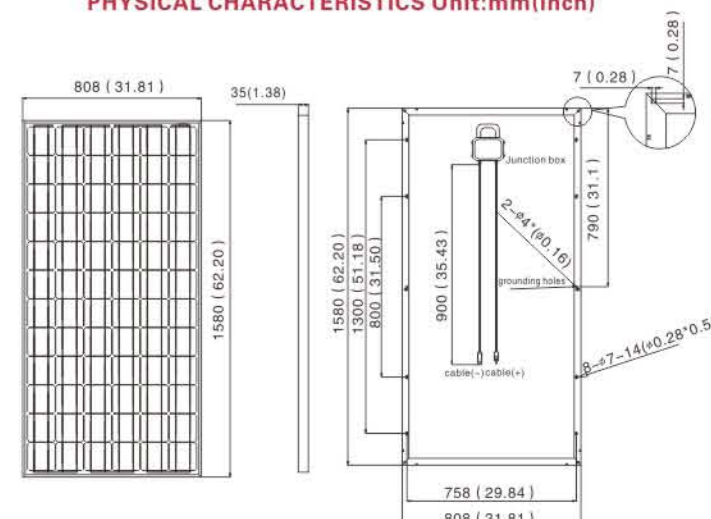
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## 规格 Specifications

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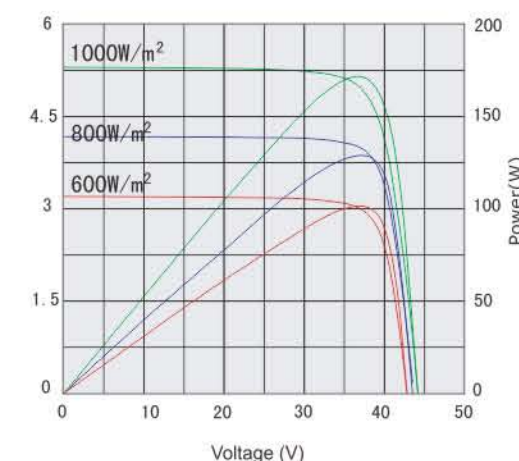
| Type 型号                                  | KD-M210  | KD-M200 | KD-M195 | KD-M190 |
|--|--|---------|---------|---------|
| Wattage(w) 瓦数                            | 210  | 200     | 195     | 190     |
| Open Circuit Voltage (V) 开路电压            | 45.8   | 45.5    | 45.4    | 45      |
| Short circuit Current (I) 短路电流           | 6.07   | 5.8     | 5.67    | 5.56    |
| Maximum Power Voltage (V) 最大输出电压         | 37.20  | 36.9    | 36.7    | 36.45   |
| Maximum Power Current (I) 最大输出电流         | 5.64   | 5.43    | 5.32    | 5.22    |
| Cell Efficiency (%) 电池片效率                | 19.00%   | 18.49%  | 18.03%  | 17.58%  |
| Module Efficiency (%) 组件效率               | 16.45%   | 15.67%  | 15.30%  | 14.90%  |
| Maximum System Voltage (V) 最大系统电压        | DC1000V  |         |         |         |
| Temperature Coefficient of Voc VOC温度系数   | -0.030%/°C   |         |         |         |
| Temperature Coefficient of Isc Isc温度系数   | +0.039%/°C   |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数 | -0.423%/°C   |         |         |         |
| Maximum Series Fuse Rating最大串联保险丝额定电流(A) | 15A  |         |         |         |
| Number of Cells 电池片数量                    | 6x12(125mmx125mm)                                    |         |         |         |
| Junction Box 接线盒                         | with 3 bypass diodes                                 |         |         |         |
| Cable 电缆                                 | Length 900mm,4mm <sup>2</sup>                        |         |         |         |
| Tempered Glass 钢化玻璃                      | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |         |
| Cell Encapsulation 电池片封装                 | EVA (Ethylene-Vinyl-Acetate)                         |         |         |         |
| Back Sheet 背板                            | Triple-layer 三层                                      |         |         |         |
| Frame 边框                                 | Anodized aluminum alloy 铝合金                          |         |         |         |
| Dimension 尺寸                             | 1580x808x35mm(62.2x31.8x1.38inches)                  |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷     | 5400Pa   |         |         |         |
| Hail撞击                                   | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |         |
| Temperature Range 温度范围                   | -40°C to +85°C                                       |         |         |         |
| Weight 重量                                | 16.5Kg(34.2l bs)                                     |         |         |         |

### 物理特性 单位:毫米(英寸) PHYSICAL CHARACTERISTICS Unit:mm(inch)



### 电气参数 ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)







## 高质量太阳能组件 High Quality Solar Panel KD-M250W--280W

### 型号 Module type:

KD-M250W, KD-M255W, KD-M260W,  
KD-M265W, KD-M270W, KD-M275W,  
KD-M280W,

**组件最高功率  
Highest module efficiency:**

**16.50%**

**材料和工艺质保  
Material & Workmanship warranty:**

**10 year**

**输出功率保证  
Linear power output warranty:**

**25 year**

| 装柜量<br>Packing Configuration  | 40mm边框<br>40mmFrame |      |      |
|-------------------------------|---------------------|------|------|
| Container 集装箱                 | 20FT                | 40GP | 40HQ |
| Pieces per pallet 每托盘数量       | 52                  | 52   | 56   |
| Pallets per container 每集装箱托盘数 | 6                   | 14   | 14   |
| Pieces per container 每集装箱数量   | 324                 | 756  | 840  |



正公差  
Positive tolerance offer: 0-+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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## 规格 Specifications

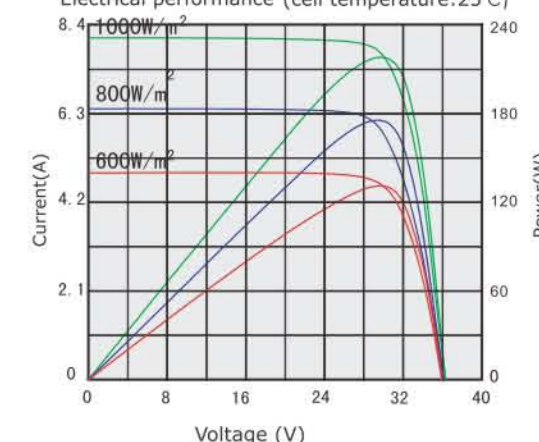
| Type 型号                                  | KD-M280  | KD-M275 | KD-M270 | KD-M265 | KD-M260 | KD-M255 | KD-M250 |
|--|--|---------|---------|---------|---------|---------|---------|
| Wattage(w) 瓦数                            | 280  | 275     | 270     | 265     | 260     | 255     | 250     |
| Open Circuit Voltage (V) 开路电压            | 38.20  | 38.15   | 38.10   | 37.95   | 37.80   | 37.65   | 37.50   |
| Short circuit Current (I) 短路电流           | 9.31   | 9.22    | 9.10    | 9.00    | 8.89    | 8.79    | 8.69    |
| Maximum Power Voltage (V) 最大输出电压         | 32.28  | 32.15   | 32.00   | 31.75   | 31.50   | 31.25   | 31.00   |
| Maximum Power Current (I) 最大输出电流         | 8.67   | 8.56    | 8.44    | 8.35    | 8.25    | 8.16    | 8.06    |
| Cell Efficiency (%) 电池片效率                | 19.53%   | 19.18%  | 18.83%  | 18.48%  | 18.13%  | 17.79%  | 17.44%  |
| Module Efficiency (%) 组件效率               | 17.11%   | 16.80%  | 16.50%  | 16.20%  | 15.88%  | 15.58%  | 15.30%  |
| Maximum System Voltage (V) 最大系统电压        | DC1000V  |         |         |         |         |         |         |
| Temperature Coefficient of Voc VOC温度系数   | -0.307%/°C   |         |         |         |         |         |         |
| Temperature Coefficient of Isc Isc温度系数   | +0.04%/°C  |         |         |         |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数 | -0.423%/°C   |         |         |         |         |         |         |
| Maximum Series Fuse Rating最大串联保险丝额定电流(A) | 15A  |         |         |         |         |         |         |
| Number of Cells 电池片数量                    | 6x10(156mmx156mm)                                    |         |         |         |         |         |         |
| Junction Box 接线盒                         | with 6 bypass diodes                                 |         |         |         |         |         |         |
| Cable 电缆                                 | Length 900mm,4mm <sup>2</sup>                        |         |         |         |         |         |         |
| Tempered Glass 钢化玻璃                      | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |         |         |         |         |
| Cell Encapsulation 电池片封装                 | EVA (Ethylene-Vinyl-Acetate)                         |         |         |         |         |         |         |
| Back Sheet 背板                            | Triple-layer 三层                                      |         |         |         |         |         |         |
| Frame 边框                                 | Anodized aluminum alloy 铝合金                          |         |         |         |         |         |         |
| Dimension 尺寸                             | 1650x992x40mm(64.96x39.06x1.57inches)                |         |         |         |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷     | 5400Pa   |         |         |         |         |         |         |
| Hail撞击                                   | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |         |         |         |         |
| Temperature Range 温度范围                   | -40°C to +85°C                                       |         |         |         |         |         |         |
| Weight 重量                                | 18.5Kg(40.81 bs)                                     |         |         |         |         |         |         |

物理特性 单位:毫米(英寸)  
PHYSICAL CHARACTERISTICS Unit:mm(inch)



电气参数  
ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)







## 高质量太阳能组件 High Quality Solar Panel KD-M290W--325W

### 型号 Module type:

KD-M290W, KD-M295W, KD-M300W,  
KD-M305W, KD-M310W, KD-M315W,  
KD-M320W, KD-M325W

| 装柜量<br>Packing Configuration  | 50mm边框<br>50mmFrame |      |      |
|-------------------------------|---------------------|------|------|
| Container 集装箱                 | 20FT                | 40GP | 40HQ |
| Pieces per pallet 每托盘数量       | 48                  | 48   | 54   |
| Pallets per container 每集装箱托盘数 | 5                   | 11   | 22   |
| Pieces per container 每集装箱数量   | 240                 | 528  | 594  |

### 组件最高功率 Highest module efficiency:

16.63%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0~+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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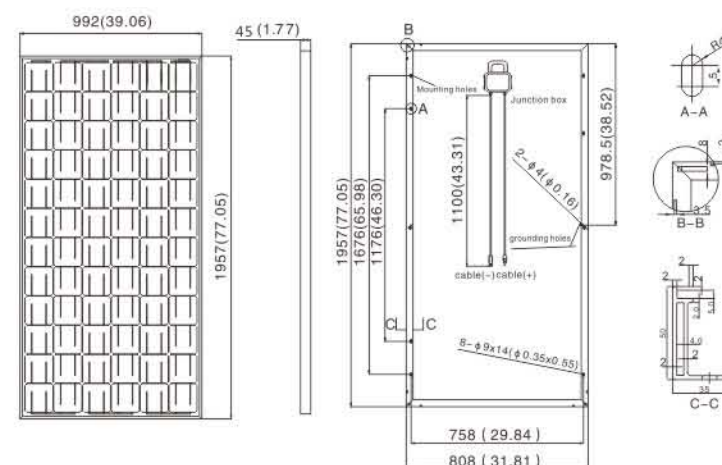
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## 规格 Specifications

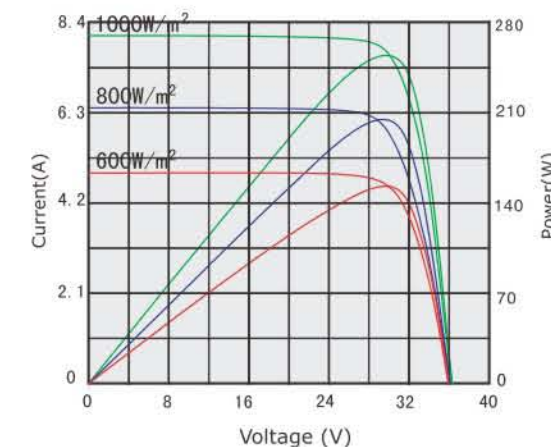
| Type 型号                                   | KD-M325   | KD-M320 | KD-M315 | KD-M310 | KD-M305 | KD-M300 | KD-M295 | KD-M290 |
|---|---|---------|---------|---------|---------|---------|---------|---------|
| Wattage(w) 瓦数                             | 325   | 320     | 315     | 310     | 305     | 300     | 295     | 290     |
| Open Circuit Voltage (V) 开路电压             | 45.30   | 45.20   | 45.10   | 45.0    | 44.9    | 44.8    | 44.6    | 44.5    |
| Short Circuit Current (I) 短路电流            | 8.87  | 8.79    | 8.71    | 8.97    | 8.87    | 8.80    | 8.73    | 8.67    |
| Maximum Power Voltage (V) 最大输出电压          | 37.00   | 36.80   | 36.60   | 36.40   | 36.2    | 36.1    | 35.9    | 35.8    |
| Maximum Power Current (I) 最大输出电流          | 8.78  | 8.70    | 8.61    | 8.52    | 8.43    | 8.32    | 8.22    | 8.11    |
| Cell Efficiency (%) 电池片效率                 | 18.90%  | 18.60%  | 18.31%  | 18.02%  | 17.73%  | 17.44%  | 17.15%  | 16.86%  |
| Module Efficiency (%) 组件效率                | 16.63%  | 16.48%  | 16.23%  | 15.97%  | 15.71%  | 15.45%  | 15.20%  | 14.94%  |
| Maximum System Voltage (V) 最大系统电压         | DC1000V   |         |         |         |         |         |         |         |
| Temperature Coefficient of Voc VOC温度系数    | -0.307%/°C  |         |         |         |         |         |         |         |
| Temperature Coefficient of Isc Isc温度系数    | +0.04%/°C   |         |         |         |         |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数  | -0.423%/°C  |         |         |         |         |         |         |         |
| Maximum Series Fuse Rating 最大串联保险丝额定电流(A) | 15A   |         |         |         |         |         |         |         |
| Number of Cells 电池片数量                     | 6x12(156mmx156mm)   |         |         |         |         |         |         |         |
| Junction Box 接线盒                          | Ip67 rated/with 6 bypass diodes IP67等级 / 带6个旁路二极管 IP67等级                      |         |         |         |         |         |         |         |
| Cable 电缆                                  | Length 900mm,4mm <sup>2</sup>   |         |         |         |         |         |         |         |
| Tempered Glass 钢化玻璃                       | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃                          |         |         |         |         |         |         |         |
| Cell Encapsulation 电池片封装                  | EVA (Ethylene-Vinyl-Acetate)  |         |         |         |         |         |         |         |
| Back Sheet 背板                             | Composite film 复合   |         |         |         |         |         |         |         |
| Frame 边框                                  | Anodized aluminum alloy 铝合金   |         |         |         |         |         |         |         |
| Dimension 尺寸                              | 1957x992x45mm(77.05x39.06x1.77inches)   |         |         |         |         |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷      | 5400Pa  |         |         |         |         |         |         |         |
| Hail 撞击                                   | maximun diameter of 25mm with impact speed of 23 m-s-1 最大直径25毫米的23 m-s-1速度的影响 |         |         |         |         |         |         |         |
| Temperature Range 温度范围                    | -40°C to +85°C  |         |         |         |         |         |         |         |
| Weight 重量                                 | 22.5Kg(49.6 bs)   |         |         |         |         |         |         |         |

### 物理特性 单位:毫米(英寸) PHYSICAL CHARACTERISTICS Unit:mm(inch)



### 电气参数 ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)







## 高质量太阳能组件 High Quality Solar Panel KD-P100W--120W

### 型号 Module type:

KD-P100W, KD-P105W, KD-P110W, KD-P115W, KD-P120W

组件最高功率  
Highest module efficiency:

16.0%

材料和工艺质保  
Material & Workmanship warranty:

10 year

输出功率保证  
Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0~+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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Kingdom Solar GmbH

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## 规格 Specifications

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| Type 型号                                   | KD-P100  | KD-P105 | KD-P110 | KD-P115 | KD-P120 |
|---|--|---------|---------|---------|---------|
| Wattage(w) 瓦数                             | 100  | 105     | 110     | 115     | 120     |
| Open Circuit Voltage (V) 开路电压             | 22.92  | 23.05   | 21.24   | 22.68   | 23.12   |
| Short circuit Current (I) 短路电流            | 5.84   | 6.08    | 6.70    | 6.77    | 6.96    |
| Maximum Power Voltage (V) 最大输出电压          | 18.50  | 18.60   | 17.70   | 18.30   | 18.60   |
| Maximum Power Current (I) 最大输出电流          | 5.41   | 5.64    | 6.21    | 6.28    | 6.45    |
| Cell Efficiency (%) 电池片效率                 | 17.10%   | 18.00%  | 16.80%  | 17.50%  | 18.20%  |
| Module Efficiency (%) 组件效率                | 14.80%   | 15.54%  | 14.59%  | 15.26%  | 15.94%  |
| Maximum System Voltage (V) 最大系统电压         | DC1000V  |         |         |         |         |
| Temperature Coefficient of Voc VOC温度系数    | -0.270%/°C   |         |         |         |         |
| Temperature Coefficient of Isc Isc温度系数    | +0.045%/°C   |         |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数  | -0.408%/°C   |         |         |         |         |
| Maximum Series Fuse Rating 最大串联保险丝额定电流(A) | 10A  |         |         |         |         |
| Junction Box 接线盒                          | with 2bypass diodes                                  |         |         |         |         |
| Cable 电缆                                  | Length 900mm, 4mm <sup>2</sup>                       |         |         |         |         |
| Tempered Glass 钢化玻璃                       | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |         |         |
| Cell Encapsulation 电池片封装                  | EVA ( Ethylene-Vinyl-Acetate)                        |         |         |         |         |
| Back Sheet 背板                             | Triple-layer 三层                                      |         |         |         |         |
| Frame 边框                                  | Anodized aluminum alloy 铝合金                          |         |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷      | 5400Pa   |         |         |         |         |
| Hail 撞击                                   | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |         |         |
| Temperature Range 温度范围                    | -40°C to +85°C                                       |         |         |         |         |

LET THE SUN  
change lives 让阳光改变生活





## 高质量太阳能组件 High Quality Solar Panel KD-P145W--160W

### 型号 Module type:

KD-P145W, KD-P150W, KD-P155W,  
KD-P160W

| 装柜量<br>Packing Configuration  | 30mm边框<br>30mmFrame |      |      |
|-------------------------------|---------------------|------|------|
| Container 集装箱                 | 20FT                | 40GP | 40HQ |
| Pieces per pallet 每托盘数量       | 96                  | 96   | 100  |
| Pallets per container 每集装箱托盘数 | 7                   | 15   | 15   |
| Pieces per container 每集装箱数量   | 672                 | 1440 | 1500 |

### 组件最高功率 Highest module efficiency:

16.11%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0-+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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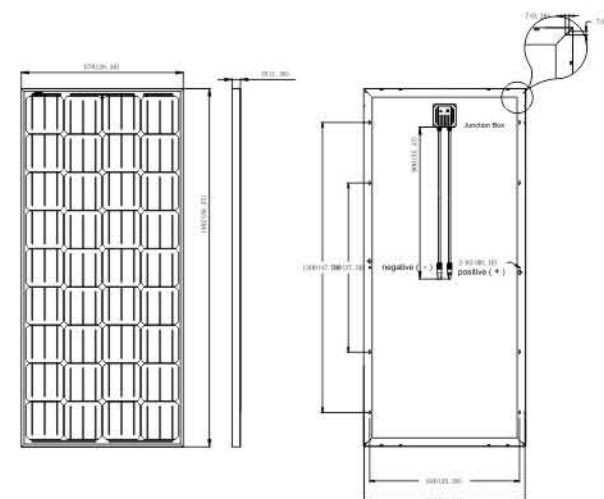
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## 规格 Specifications

23-24

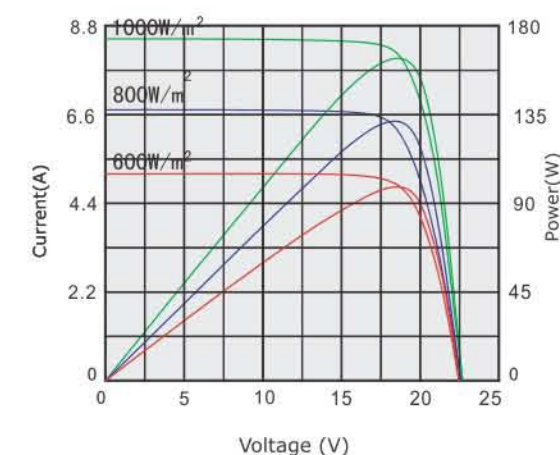
| Type 型号                                  | KD-P145  | KD-P150 | KD-P155 | KD-P160 |
|--|--|---------|---------|---------|
| Wattage(w) 瓦数                            | 145  | 150     | 155     | 160     |
| Open Circuit Voltage (V) 开路电压            | 22.60  | 22.60   | 22.60   | 22.9    |
| Short circuit Current (I) 短路电流           | 8.38   | 8.62    | 8.92    | 9.06    |
| Maximum Power Voltage (V) 最大输出电压         | 18.50  | 18.50   | 18.50   | 18.8    |
| Maximum Power Current (I) 最大输出电流         | 7.84   | 8.10    | 8.38    | 8.52    |
| Cell Efficiency (%) 电池片效率                | 16.80%   | 17.20%  | 17.80%  | 18.20%  |
| Module Efficiency (%) 组件效率               | 14.60%   | 15.12%  | 15.61%  | 16.11%  |
| Maximum System Voltage (V) 最大系统电压        | DC1000V  |         |         |         |
| Temperature Coefficient of Voc VOC温度系数   | -0.270%/°C   |         |         |         |
| Temperature Coefficient of Isc Isc温度系数   | +0.045%/°C   |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数 | -0.408%/°C   |         |         |         |
| Maximum Series Fuse Rating最大串联保险丝额定电流(A) | 10A  |         |         |         |
| Number of Cells 电池片数量                    | 4x9(156mmx156mm)                                     |         |         |         |
| Junction Box 接线盒                         | with 2bypass diodes                                  |         |         |         |
| Cable 电缆                                 | Length 900mm,4mm <sup>2</sup>                        |         |         |         |
| Tempered Glass 钢化玻璃                      | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |         |
| Cell Encapsulation 电池片封装                 | EVA ( Ethylene-Vinyl-Acetate)                        |         |         |         |
| Back Sheet 背板                            | Triple-layer 三层                                      |         |         |         |
| Frame 边框                                 | Anodized aluminum alloy 铝合金                          |         |         |         |
| Dimension 尺寸                             | 1482x670x30mm(58.34x26.38x1.18inches)                |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷     | 5400Pa   |         |         |         |
| Hail 撞击                                  | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |         |
| Temperature Range 温度范围                   | -40°C to +85°C                                       |         |         |         |
| Weight 重量                                | 10.5Kg(23.1lbs)                                      |         |         |         |

### 物理特性 单位:毫米(英寸) PHYSICAL CHARACTERISTICS Unit:mm(inch)

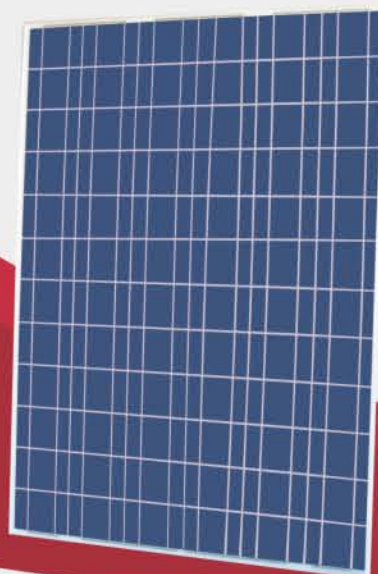


### 电气参数 ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)







## 高质量太阳能组件 High Quality Solar Panel KD-P195W--210W

### 型号 Module type:

KD-P195W, KD-P200W, KD-P205W,  
KD-P210W

| 装柜量<br>Packing Configuration  | 30mm边框<br>30mmFrame |      |      |
|-------------------------------|---------------------|------|------|
| Container 集装箱                 | 20FT                | 40GP | 40HQ |
| Pieces per pallet 每托盘数量       | 60                  | 60   | 66   |
| Pallets per container 每集装箱托盘数 | 8                   | 16   | 16   |
| Pieces per container 每集装箱数量   | 480                 | 960  | 1056 |

### 组件最高功率 Highest module efficiency:

16.00%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0-+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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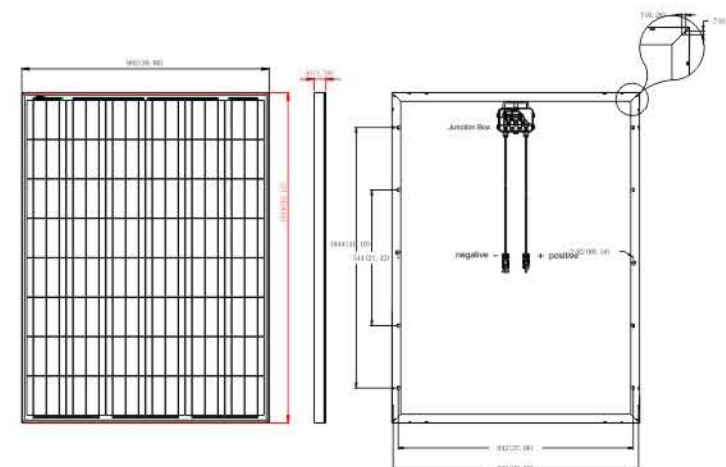
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Kingdom Solar GmbH

Add: Kingdom Solar GmbH Pirkheimerstr. 68 90408 Nürnberg

## 规格 Specifications

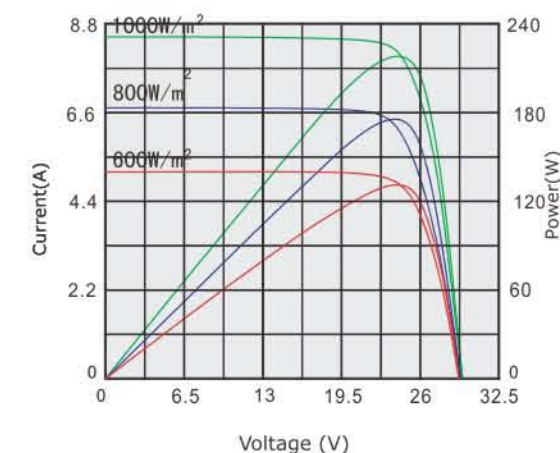
| Type 型号                                  | KD-P195  | KD-P200 | KD-P205 | KD-P210 |
|--|--|---------|---------|---------|
| Wattage(w) 瓦数                            | 195  | 200     | 205     | 210     |
| Open Circuit Voltage (V) 开路电压            | 30.50  | 30.50   | 31.10   | 31.10   |
| Short circuit Current (I) 短路电流           | 8.73   | 8.76    | 8.98    | 9.05    |
| Maximum Power Voltage (V) 最大输出电压         | 24   | 24.50   | 24.50   | 24.60   |
| Maximum Power Current (I) 最大输出电流         | 8.13   | 8.16    | 8.37    | 8.54    |
| Cell Efficiency (%) 电池片效率                | 16.80%   | 17.10%  | 17.60%  | 18.00%  |
| Module Efficiency (%) 组件效率               | 14.85%   | 15.22%  | 15.60%  | 16.00%  |
| Maximum System Voltage (V) 最大系统电压        | DC1000V  |         |         |         |
| Temperature Coefficient of Voc VOC温度系数   | -0.270%/°C   |         |         |         |
| Temperature Coefficient of Isc Isc温度系数   | +0.045%/°C   |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数 | -0.408%/°C   |         |         |         |
| Maximum Series Fuse Rating最大串联保险丝额定电流(A) | 10A  |         |         |         |
| Number of Cells 电池片数量                    | 6x8(156mmx156mm)                                     |         |         |         |
| Junction Box 接线盒                         | with 2bypass diodes                                  |         |         |         |
| Cable 电缆                                 | Length 900mm,4mm <sup>2</sup>                        |         |         |         |
| Tempered Glass 钢化玻璃                      | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |         |
| Cell Encapsulation 电池片封装                 | EVA (Ethylene-Vinyl-Acetate)                         |         |         |         |
| Back Sheet 背板                            | Triple-layer 三层                                      |         |         |         |
| Frame 边框                                 | Anodized aluminum alloy 铝合金                          |         |         |         |
| Dimension 尺寸                             | 1324x992x35mm(52.12x39.05x1.38inches)                |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷     | 5400Pa   |         |         |         |
| Hail 撞击                                  | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |         |
| Temperature Range 温度范围                   | -40°C to +85°C                                       |         |         |         |
| Weight 重量                                | 10.5Kg(23.1lbs)                                      |         |         |         |

### 物理特性 单位:毫米(英寸) PHYSICAL CHARACTERISTICS Unit:mm(inch)



### 电气参数 ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)







## 高质量太阳能组件 High Quality Solar Panel KD-P240W--270W

### 型号 Module type:

KD-P240W, KD-P245W, KD-P250W,  
KD-P255W, KD-P260W, KD-P265W,  
KD-P270W

### 组件最高功率 Highest module efficiency:

16.20%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer: 0-+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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#### ZHEJIANG KINGDOM GERMANY Sub-COMPANY Kingdom Solar GmbH

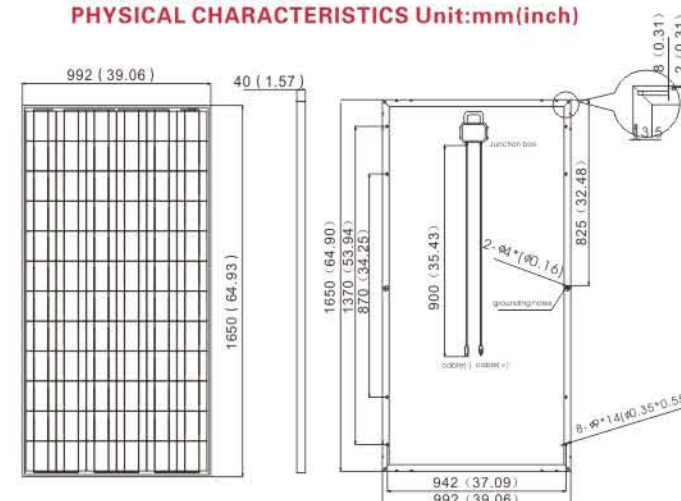
Add: Kingdom Solar GmbH Pirckheimerstr. 68 90408 Nürnberg

## 规格 Specifications

27-28

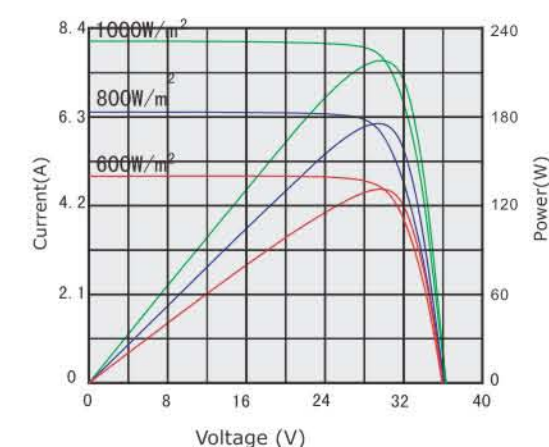
| Type 型号                                   | KD-P270  | KD-P265 | KD-P260 | KD-P255 | KD-P250 | KD-P245 | KD-P240 |
|---|--|---------|---------|---------|---------|---------|---------|
| Wattage(w) 瓦数                             | 265  | 265     | 260     | 255     | 250     | 245     | 240     |
| Open Circuit Voltage (V) 开路电压             | 38.40  | 38.00   | 37.95   | 37.90   | 37.85   | 37.8    | 37.00   |
| Short Circuit Current (I) 短路电流            | 9.04   | 8.53    | 8.49    | 8.44    | 8.4     | 8.38    | 8.35    |
| Maximum Power Voltage (V) 最大输出电压          | 32.64  | 32.46   | 32.02   | 31.59   | 31.17   | 30.75   | 30.12   |
| Maximum Power Current (I) 最大输出电流          | 8.22   | 8.16    | 8.12    | 8.07    | 8.03    | 7.97    | 7.97    |
| Cell Efficiency (%) 电池片效率                 | 18.88%   | 18.15%  | 17.81%  | 17.46%  | 17.12%  | 16.78%  | 16.44%  |
| Module Efficiency (%) 组件效率                | 16.50%   | 16.20%  | 15.88%  | 15.58%  | 15.30%  | 15.00%  | 14.70%  |
| Maximum System Voltage (V) 最大系统电压         | DC1000V  |         |         |         |         |         |         |
| Temperature Coefficient of Voc VOC温度系数    | -0.27%/°C  |         |         |         |         |         |         |
| Temperature Coefficient of Isc Isc温度系数    | +0.045%/°C   |         |         |         |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数  | -0.408%/°C   |         |         |         |         |         |         |
| Maximum Series Fuse Rating 最大串联保险丝额定电流(A) | 15A  |         |         |         |         |         |         |
| Number of Cells 电池片数量                     | 6x10(156mmx156mm)                                    |         |         |         |         |         |         |
| Junction Box 接线盒                          | with 6 bypass diodes                                 |         |         |         |         |         |         |
| Cable 电缆                                  | Length 900mm, 4mm <sup>2</sup>                       |         |         |         |         |         |         |
| Tempered Glass 钢化玻璃                       | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃 |         |         |         |         |         |         |
| Cell Encapsulation 电池片封装                  | EVA (Ethylene-Vinyl-Acetate)                         |         |         |         |         |         |         |
| Back Sheet 背板                             | Triple-layer 三层                                      |         |         |         |         |         |         |
| Frame 边框                                  | Anodized aluminum alloy 铝合金                          |         |         |         |         |         |         |
| Dimension 尺寸                              | 1650x992x40mm(64.57x38.98x1.57inches)                |         |         |         |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷      | 5400Pa   |         |         |         |         |         |         |
| Hail 撞击                                   | steel ball fall down from 1m height 钢球从1米高度跌落        |         |         |         |         |         |         |
| Temperature Range 温度范围                    | -40°C to +85°C                                       |         |         |         |         |         |         |
| Weight 重量                                 | 18.5Kg(40.81 bs)                                     |         |         |         |         |         |         |

### 物理特性 单位:毫米(英寸) PHYSICAL CHARACTERISTICS Unit:mm(inch)

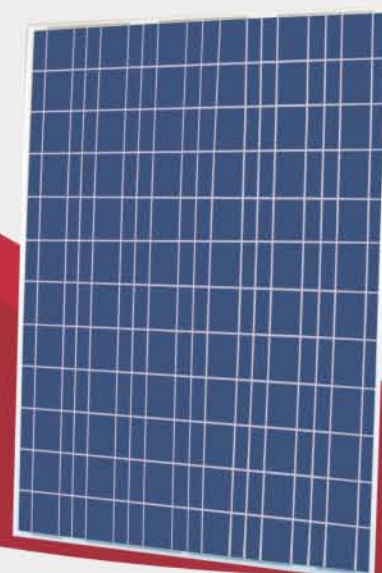


### 电气参数 ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)







## 高质量太阳能组件 High Quality Solar Panel KD-P290W--320W

### 型号 Module type:

KD-P290W, KD-P295W, KD-P300W,  
KD-P305W, KD-P310W, KD-P315W,  
KD-P320W

| 装柜量<br>Packing Configuration  | 45mm边框<br>45mmFrame |      |      |
|-------------------------------|---------------------|------|------|
| Container 集装箱                 | 20FT                | 40GP | 40HQ |
| Pieces per pallet 每托盘数量       | 48                  | 48   | 56   |
| Pallets per container 每集装箱托盘数 | 5                   | 11   | 11   |
| Pieces per container 每集装箱数量   | 240                 | 528  | 594  |

### 组件最高功率 Highest module efficiency:

16.48%

### 材料和工艺质保 Material & Workmanship warranty:

10 year

### 输出功率保证 Linear power output warranty:

25 year



正公差  
Positive tolerance offer:0-+5w



欧洲大银行能接受  
TUV bankable in all European big banks



证书能承受风速(2400 pa)和机械负载(5400 pa)  
Certificated to withstand wind (2400pa) and mechanical load (5400pa)

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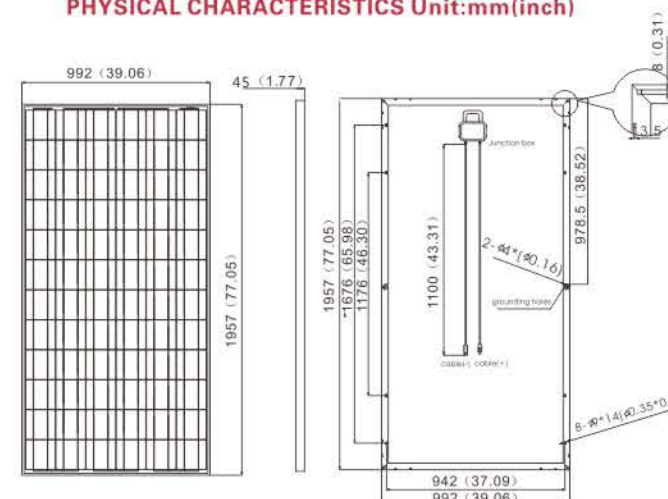
#### ZHEJIANG KINGDOM GERMANY Sub-COMPANY Kingdom Solar GmbH

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## 规格 Specifications

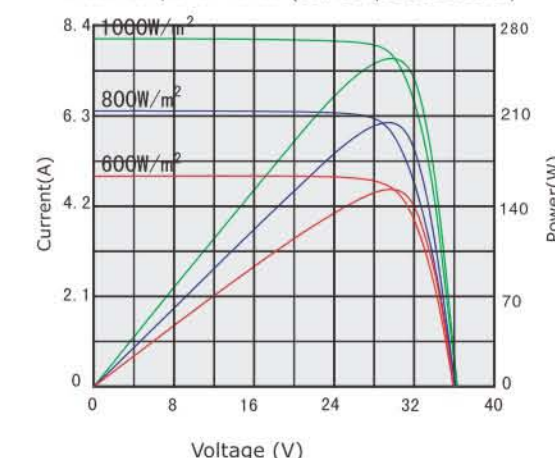
| Type 型号                                   | KD-P320   | KD-P315 | KD-P310 | KD-P305 | KD-P300 | KD-P295 | KD-P290 |
|---|---|---------|---------|---------|---------|---------|---------|
| Wattage(w) 瓦数                             | 320   | 315     | 310     | 305     | 300     | 295     | 290     |
| Open Circuit Voltage (V) 开路电压             | 46.78   | 46.46   | 46.14   | 45.82   | 45.5    | 45.2    | 44.9    |
| Short Circuit Ccurrent (I) 短路电流           | 9.38  | 9.30    | 9.21    | 9.11    | 9.03    | 8.95    | 8.90    |
| Maximum Power Voltage (V) 最大输出电压          | 37.50   | 37.25   | 37.00   | 36.80   | 36.5    | 36.2    | 36.00   |
| Maximum Power Current (I) 最大输出电流          | 8.53  | 8.46    | 8.38    | 8.29    | 8.22    | 8.15    | 8.10    |
| Cell Efficiency (%) 电池片效率                 | 18.28%  | 17.98%  | 17.69%  | 17.41%  | 17.12%  | 16.84%  | 16.55%  |
| Module Efficiency (%) 组件效率                | 16.48%  | 16.23%  | 16.00%  | 15.71%  | 15.45%  | 15.20%  | 14.94%  |
| Maximum System Voltage (V) 最大系统电压         | DC1000V   |         |         |         |         |         |         |
| Temperature Coefficient of Voc VOC温度系数    | -0.27%/°C   |         |         |         |         |         |         |
| Temperature Coefficient of Isc Isc温度系数    | +0.045%/°C  |         |         |         |         |         |         |
| Temperature Coefficient of Pmax Pmax温度系数  | -0.408%/°C  |         |         |         |         |         |         |
| Maximum Series Fuse Rating 最大串联保险丝额定电流(A) | 15A   |         |         |         |         |         |         |
| Number of Cells 电池片数量                     | 6x12(156mmx156mm)   |         |         |         |         |         |         |
| Junction Box 接线盒                          | Ip67 rated/with 6 bypass diodes IP67等级 / 带6个旁路二极管 IP67等级                      |         |         |         |         |         |         |
| Cable 电缆                                  | Length 900mm,4mm <sup>2</sup>   |         |         |         |         |         |         |
| Tempered Glass 钢化玻璃                       | 3.2mm(0.13 inches)tempered glass 3.2mm (0.13 英寸)钢化玻璃                          |         |         |         |         |         |         |
| Cell Encapsulation 电池片封装                  | EVA (Ethylene-Vinyl-Acetate)  |         |         |         |         |         |         |
| Back Sheet 背板                             | Composite film 复合   |         |         |         |         |         |         |
| Frame 边框                                  | Anodized aluminum alloy 铝合金   |         |         |         |         |         |         |
| Dimension 尺寸                              | 1957x992x45mm(77.05x39.06x1.77inches)   |         |         |         |         |         |         |
| Maximum Surface Load Capacity 最大表面负荷      | 5400Pa  |         |         |         |         |         |         |
| Hail 撞击                                   | maximun diameter of 25mm with impact speed of 23 m-s-1 最大直径25毫米的23 m-s-1速度的影响 |         |         |         |         |         |         |
| Temperature Range 温度范围                    | -40°C to +85°C  |         |         |         |         |         |         |
| Weight 重量                                 | 22.5Kg(49.6 bs)   |         |         |         |         |         |         |

### 物理特性 单位:毫米(英寸) PHYSICAL CHARACTERISTICS Unit:mm(inch)



### 电气参数 ELECTRICAL CHARACTERISTICS

电气性能(组件温度:25°C)  
Electrical performance (cell temperature:25°C)





## 太阳能小组件数据

## Solar Small Module Specification

| Module组件                     | Power(wp)功率 (瓦) | Cell SIZE电池规格 | Vmp(V)输出电流 | Imp(A)输出电压 |  | Voc(v)开路电压 | ISC(A) 短路电流 | Moudie Size(MM)组件尺寸 | Moudie Array 组件电池排列 |
|------------------------------|-----------------|---------------|------------|------------|--|------------|-------------|---------------------|---------------------|
| Type型号                       | 5(18)           | 78*22         | 8.65       | 0.578      |  | 10.55      | 0.718       | 185*255*17          | 2*9                 |
| Poly Solar Panel<br>多晶太阳能电池板 | 10(36)          | 78*22         | 17.3       | 0.578      |  | 21.1       | 0.718       | 350*255/20/17       | 4*9                 |
|                              | 15(36)          | 156*16        | 17.3       | 0.867      |  | 21.1       | 1.077       | 350*370*20          | 2*18                |
|                              | 20(36)          | 156*22        | 17.3       | 1.156      |  | 21.1       | 1.426       | 350*470*20          | 2*18                |
|                              | 30(36)          | 156*31.2      | 18.2       | 1.648      |  | 21.8       | 1.918       | 350*640*25          | 2*18                |
|                              | 40(36)          | 156*43.3      | 18.2       | 2.22       |  | 21.6       | 2.38        | 460*670*30/25       | 4*9                 |
|                              | 50(36)          | 156*52        | 18.25      | 2.74       |  | 22.7       | 2.95        | 670*540*30/25       | 4*9/3*12            |
|                              | 60(36)          | 156*65        | 17.91      | 3.35       |  | 21.5       | 3.685       | 505*860*30/25       | 3*12                |
|                              | 65(36)          | 156*70        | 17.8       | 3.89       |  | 21.6       | 4.16        | 505*935*30/25       | 3*12                |
|                              | 80(36)          | 156*87        | 18.01      | 4.44       |  | 21.61      | 4.71        | 505*1125*35/30      | 3*12                |
|                              | 90(36)          | 156*93.6      | 18.2       | 4.945      |  | 22.2       | 5.215       | 1200*510/35/30      | 3*12                |

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**LET THE SUN**  
change lives 让阳光改变生活



# 太阳能系统 Solar System

| 太阳能家用系统 15K W离网 Solar System              |   | 技术参数 Technical parameters |
|---|---|---------------------------|
| 参数名称 Parameter                            |   | LY-P15KW Series           |
| 输出容量 Outputcapacity                       |   | 15KVA                     |
| 输出波形 Output waveform                      |   | 纯正弦波 Pure sine wave       |
| 输出电流 Output current                       |   | 39.4A                     |
| 功率因素 Power element                        |   | 0.9                       |
| 工作效率 Work efficiency                      |   | >95%                      |
| 输出电压 Output voltage                       |   | AC380V ± 3%               |
| 输出频率 Output frequency                     |   | 50HZ ± 0.1%               |
| 过载能力 overload ability                     |   | 120%,60seconds            |
| 太阳能板最大输出电流 Max output current solar panel |   | A                         |
| 太阳能板输出功率 Output power of solar panel      |   | 15KW                      |
| 蓄电池容量 Battery capacit                     |   | 650AH                     |
| 蓄电池电压 Battery voltage                     |   | 220V                      |
| 主机尺寸 Size of hos                          |   |                           |
| 总重量 Weight                                |   |                           |
| 体积 Volume                                 |   |                           |
| 日发电量 Best output power everyday           |   | kwh                       |
| 产品 Components                             | 规格型号 Description  | 数量 Quantity               |
| 光伏组件 Solar panel                          | Poly solar panel 250W 32V                                 | 60pcs                     |
| 组件支架 PV Rack                              | 镀锌钢铁支架<br>Rust corrosion resistant galvanizing angle iron | 1set                      |
| 太阳能充电控制器 Controller                       | 220V/100A   | 1set                      |
| 正弦波逆变器 Inveter                            | 220V12KW Pure sine wave                                   | 1set                      |
| 铅酸蓄电池 Battery                             | 2V650AH Lead-acid battery                                 | 110pcs                    |
| 电源柜 power box                             | 650x900x1200mm  | 1set                      |
| 线缆 Cable                                  | 50mm2 Cable   | 50meter                   |
| USD                                       |   |                           |
| FOB ningbo                                |   |                           |

## 金诺完整光伏产业系统 Completed PV industrial system in KINGDOM

光伏系统是由太阳能电池方阵，蓄电池组，充放电控制器，逆变器，交流配电柜等设备组成。  
Photovoltaic System is composed of solar cell square formation,the battery unit,the charging and discharging controller, the inverter, alternating-current distribution cabinet, and so on.

