

# 多晶144片高效半片组件

Polycrystalline Half-cell Module (144 Half Cells)

## 330-345W

输出功率 / Output power

## 17.51%

最高效率 / Maximum efficiency

## 0~+5W

功率公差 / Power tolerance

### 全面的产品和体系证书

Comprehensive product certification and system certification

IEC 61215 IEC 61730

IEC TS 62804(抗PID/PID Resistant)

IEC 62716(耐氨气/Ammonia Corrosion)

IEC 61701(耐盐雾/Salt Spray Corrosion)

IEC TS 62941(光伏质量体系/

PV quality Management System)

ISO9001:2015(质量管理体系/

Quality Management System)

ISO14001(环境管理体系/

Environmental Management System)

OHSAS18001(职业健康安全管理体系/

Occupational Health and Safety Management System)

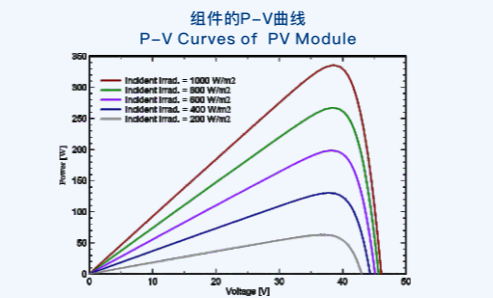
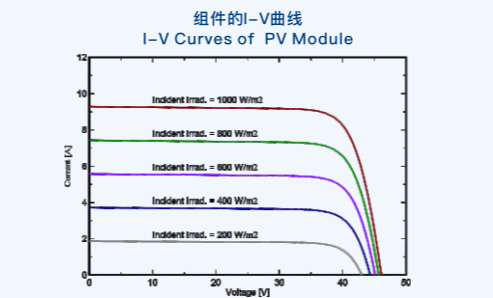
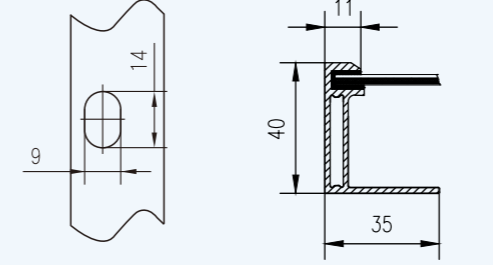
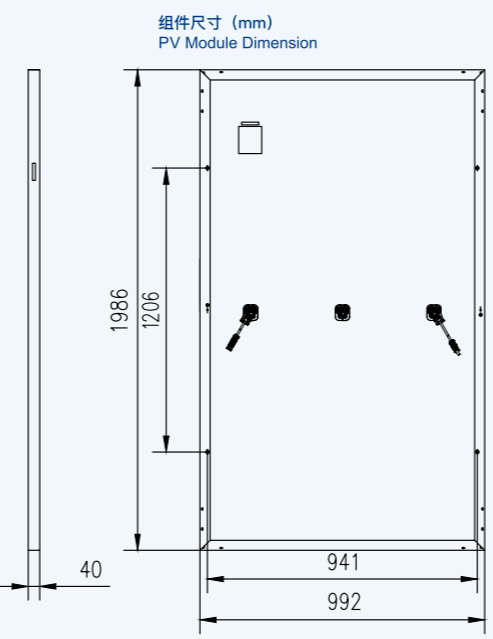


湖南红太阳新能源科技有限公司成立于2008年，由中电科电子装备集团有限公司全资控股，是中国电子科技集团有限公司（世界500强）的成员企业。公司在长沙、北京设有两个生产基地，具备1GW高效组件智能生产能力，是首批符合《光伏制造行业规范条件》的企业。单晶、多晶组件均获“领跑者”一级认证。

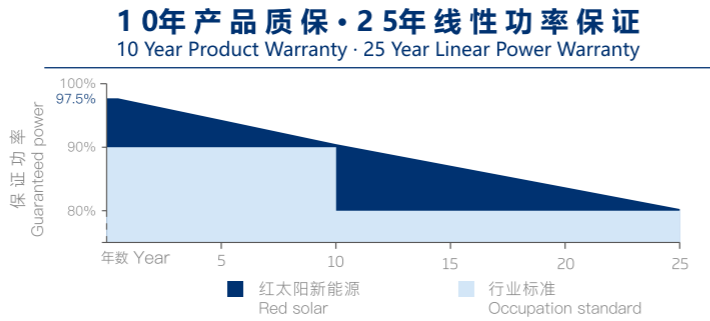
Hunan Red Solar New Energy Science and Technology Co., Ltd., established in 2008 and wholly-owned by CETC Electronics Equipment Group Co., Ltd. member of China Electronics Technology Group Co., Ltd. (Fortune Global 500). The company has two production bases in Changsha and Beijing, which have high-efficiency intelligent module production lines with annual production capacity of 1Gw. The company is the first batch of enterprises that meet the requirements of "Photovoltaic Manufacturing Industry Specification". The monocrystal and Polycrystal PV module are all certified as "top runner".



组件型号 Model of PV Module	功率范围 Power Range
CETC-xxxP/144	330-345W



- 抗PID保证 / PID Resistant Guarantee**  
经TUV NORD测试验证，通过192小时抗PID测试认证。  
Verified by TUV NORD test, Passed 192h PID resistant certification.
- 严酷环境适用性 / Severe Weather Resilience**  
经TUV NORD测试验证，通过IEC 61701耐盐雾等级6、IEC62716耐氨气测试认证。  
Verified by TUV NORD test, Passed IEC 61701 salt spray corrosion(grade 6), IEC62716 ammonia corrosion test certification.
- 抗热斑性能 / Hot-spot Resistance**  
更低的内部电流和回路功率，有效降低热斑致热。  
Lower internal current and power to effectively reduce hot-spot heating.
- 技术叠加 / Technical Superposition**  
可融合多种高效电池片新技术，叠加技术增益。  
Can integrate a variety of high efficiency new technology of solar cell, superposition technology gain.



型号/Model	330P	335P	340P	345P
最大功率/Maximum power	330	335	340	345
工作点电压/Working point voltage	37.68	37.89	38.10	38.31
工作点电流/Working point current	8.76	8.84	8.92	9.01
开路电压/Open circuit voltage	45.97	46.10	46.20	46.30
短路电流/Short circuit current	9.23	9.28	9.33	9.38
组件效率/PV module efficiency	16.75%	17.00%	17.26%	17.51%

标准测试条件/Standard test conditions: 大气质量AM1.5, 辐照度1000W/m², 电池温度25℃  
Atmospheric quality Am1.5, Irradiance 1000w/m², Cell Temperature 25℃

型号/Model	330P	335P	340P	345P
最大功率/Maximum power	239.3	243.1	246.9	251.7
工作点电压/Working point voltage	34.5	34.7	35.0	35.3
工作点电流/Working point current	6.94	7.00	7.06	7.14
开路电压/Open circuit voltage	41.9	42.0	42.1	42.3
短路电流/Short circuit current	7.47	7.51	7.55	7.59

NMOT: 辐照度800W/m², 环境温度20℃, 风速1m/s  
The irradiance is 800W/m², the ambient temperature is 20 degrees, and the wind speed is 1m/s

在该产品目录中的电性能参数并不指一块组件，也不是合同中承诺的内容，只做不同类型组件间比较用。  
The Electrical performance parameters are neither just referred to one PV panel, nor are a part of the contract; They are only used as reference.

组件尺寸 / Module size	1986*992*40mm
电池片数量 / Number of solar cells	二组144片 (2*6*12)
重量 / Weight	21.2Kg ±5%
接线盒 / Junction Box	IP67、兼容MC4
线缆 / Cables	4mm², 线长300mm (可定制 / Customizable)
前板玻璃 / Front plate glass	3.2mm, 超白, 减反射膜钢化玻璃/3.2mm,Ultra white&Minus reflection film toughened glass
正面静态载荷 / Static load on the front	5400Pa
背面静态载荷 / Static load on the back	2400Pa

40尺集装箱运输 / 40'HQ container transport	27 Pcs/box × 22 box = 594 Pcs
17.5米车运输 / 17.5m truck transport	23 Pcs/box × 48 box = 1104 Pcs

温度参数 / Temperature Parameter		极限参数 / Maximum Ratings	
NMOT	45±2℃	工作温度 Working temperature	-40~+85℃
最大功率(Pmax)温度系数 Temperature coefficient of maximum power(Pmax)	-0.44%/℃	最大系统电压 Maximum system voltage	1000VDC   1500VDC (定制/Custon made)
开路电压(Voc)温度系数 Temperature coefficient of open circuit voltage(Voc)	-0.34%/℃	最大保险丝额定电流 Maximum fuse rated current	15A
短路电流(Isc)温度系数 Temperature coefficient of short circuit voltage(Isc)	+0.055%/℃		

**长沙基地 Changsha base**  
地址/Address: 湖南省长沙市天心区新开铺路1025号/1025, Xinkaipu Road, Tianxin District Changsha City, Hunan Province.  
联系方式/Tel: +86 731 85380575 (国际/Abroad) +86 731 85401416 (国内/Domestic)

**北京基地 Beijing base**  
地址/Address: 北京市通州区光机电一体化产业基地兴光二街6号/NO.6, Xingguang 2nd Street, Opto Mechatronics Industry Base Tongzhou District, Beijing City.  
联系方式/Tel: +86 10 81504639 (国际/Abroad) +86 10 81504639 (国内/Domestic)