

单晶144片高效半片组件

Monocrystalline Half-cell Module (144 Half Cells)

420-440W

输出功率 / Output power

19.80%

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)
- OH&SAS18001(职业健康安全管理体系/Occupational Health and Safety Management System)



- 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.

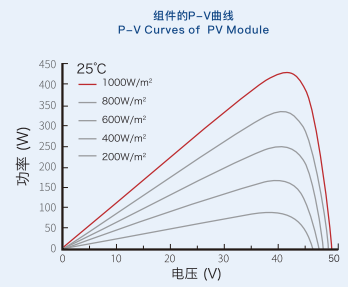
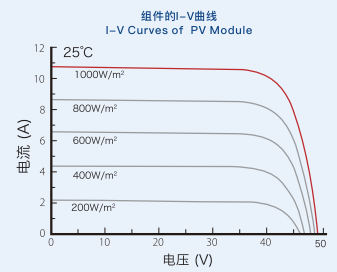
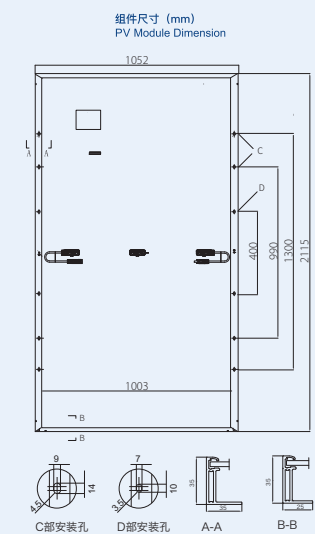
10年产品质保·25年线性功率保证

10 Year Product Warranty · 25 Year Linear Power Warranty



组件型号
Model of PV Module
CETC-xxxM/144

功率范围
Power Range
420-440W



电气参数 (STC) / Electrical Parameter(STC)					
型号/Model	420	425	430	435	440
最大功率/Maximum power	420	425	430	435	440
工作点电压/Working point voltage	40.2	40.4	40.6	40.8	41.0
工作点电流/Working point current	10.45	10.52	10.60	10.67	10.74
开路电压/Open circuit voltage	48.8	49.0	49.2	49.4	49.6
短路电流/Short circuit current	11.04	11.11	11.19	11.26	11.33
组件效率/PV module efficiency	18.9%	19.1%	19.3%	19.6%	19.8%
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°C Atmospheric quality Am1.5, Irradiance 1000w/m², Cell Temperature 25°C				

电气参数 (NMOT) / Electrical Parameters (NMOT)					
型号/Model	420	425	430	435	440
最大功率/Maximum power	311.1	314.8	318.5	322.2	326.0
工作点电压/Working point voltage	37.1	37.3	37.5	37.7	37.9
工作点电流/Working point current	8.38	8.44	8.50	8.56	8.61
开路电压/Open circuit voltage	45.5	45.7	45.9	46.1	46.3
短路电流/Short circuit current	8.90	8.95	9.02	9.08	9.13

NMOT 辐照度800W/m², 环境温度20°C, 风速1m/s
The irradiance is 800W/m², the ambient temperature is 20 degree, 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, 也不是合约中承诺的内容, 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.

机械参数 / Mechanical Parameters	
组件尺寸 / Module size	2115*1052*35mm
电池片数量 / Number of solar cells	144 (2*6*12)
重量 / Weight	24.0kg
接线盒 / Junction Box	IP68, Separated, 3*diodes
线缆 / Cables	4mm2, 300mm, Customizable
前板玻璃 / Front plate glass	3.2mm, 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

包装&运输 (Packaging&Transport)	
40尺集装箱运输 / 40'HQ container transport	660pcs
17.5米车运输 / 17.5m truck transport	960pcs

温度参数 / Temperature Parameter		极限参数 / Maximum Ratings	
NMOT	45±2°C	工作温度 Working temperature	-40~+85°C
最大功率(Pmax)温度系数 Temperature coefficient of maximum power(Pmax)	-0.370%/°C	最大系统电压 Maximum system voltage	DC1500V
开路电压(Voc)温度系数 Temperature coefficient of open circuit voltage(Voc)	-0.286%/°C	最大保险丝额定电流 Maximum fuse rated current	20A
短路电流(Isc)温度系数 Temperature coefficient of short circuit current(Isc)	+0.057%/°C		