

单晶144片高效半片组件

Monocrystalline Half-cell Module (144 Half Cells)

395-420W

输出功率 / Output power

20.93%

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 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)

①

高收益 / High Returns

背面提供额外发电, 提升投资收益。

Provide additional power generation on the rear to increase return on investment

②

高寿命 / Long Life

25年线性质保, 更低的年度衰减率, 提升投资收益。

25-year linear warranty, lower power attenuation rate, increased return on investment

③

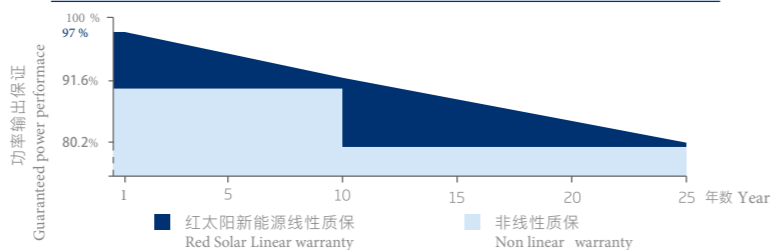
自清洁 / Self Cleaning

优异、可靠的玻璃镀膜技术, 保证恶劣环境下稳定的功率输出。

Excellent and reliable glass coating technology to ensure stable power output in severe environment.

12年产品质保 · 25年线性功率保证

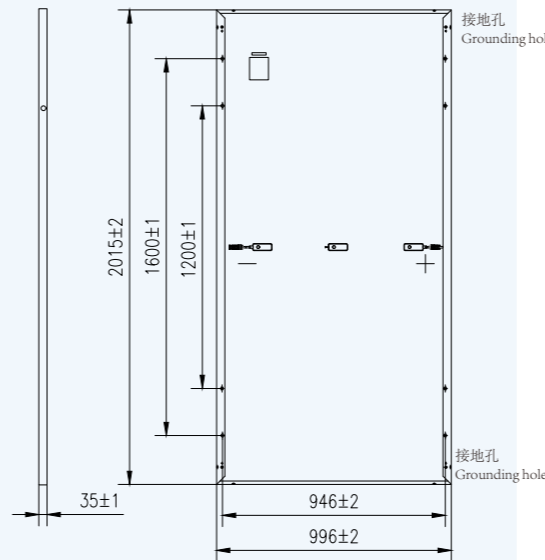
12 Year Product Warranty · 25 Year Linear Power Warranty



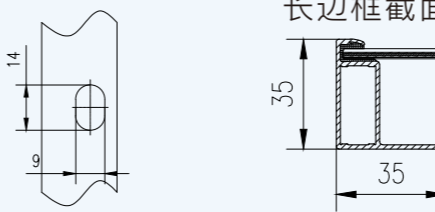
组件型号
Model of PV Module
CETC-xxxM(H)/144

功率范围
Power Range
395-420W

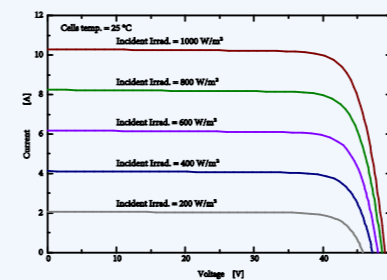
组件尺寸 (mm)
PV Module Dimension



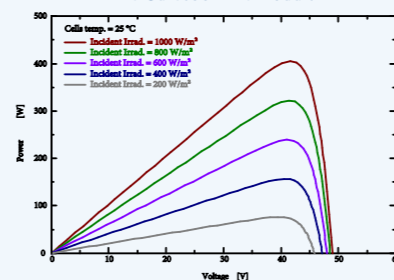
长边框截面



组件的 I-V 曲线
I-V Curves of PV Module



组件的 P-V 曲线
P-V Curves of PV Module



电气参数 (STC) / Electrical Parameter(STC)

型号/Model	395M	400M	405M	410M	415M	420M
最大功率/Maximum power	395	400	405	410	415	420
工作点电压/Working point voltage	40.80	41.00	41.29	41.54	41.79	41.79
工作点电流/Working point current	9.69	9.76	9.81	9.87	9.93	9.93
开路电压/Open circuit voltage	48.70	48.90	49.10	49.30	49.50	49.60
短路电流/Short circuit current	10.26	10.33	10.40	10.47	10.53	10.60
组件效率/PV module efficiency	19.68%	19.93%	20.18%	20.43%	20.68%	20.93%
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	395M	400M	405M	410M	415M	420M
最大功率/Maximum power	286.9	290.7	294.1	298.3	301.8	305.7
工作点电压/Working point voltage	37.50	37.70	37.90	38.20	38.40	38.60
工作点电流/Working point current	7.65	7.71	7.76	7.81	7.86	7.92
开路电压/Open circuit voltage	44.70	44.90	45.20	45.40	45.60	45.80
短路电流/Short circuit current	8.17	8.22	8.27	8.32	8.38	8.42
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 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.

机械参数 / Mechanical Parameters

组件尺寸 / Module size	2015*996*35mm
电池片数量 / Number of solar cells	144片 (2*6*12)
重量 / Weight	21Kg ±5%
接线盒 / Junction Box	PV-ZPB040 (connector: PV-ZPJ030A) The 40th Institute of China Electronic Technology Group Corporation Z8-abcd (connectors: Z4S-abcd) Zerun Co.,Ltd PV-XT1609Nxyz (connectors: PV-XT101.1) Suzhou Xtong Photovoltaic Technologies Co., Ltd.
线缆 / Cables	4mm², 线长300mm (可定制 / Customizable)
前板玻璃 / Front plate glass	超白, 减反射膜钢化玻璃/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

包装与运输 (Packaging & Transport)

40尺集装箱运输 / 40'HQ container transport	31 Pcs/box × 22 box = 682 Pcs
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温度参数 / Temperature Parameter

NMOT	45±2°C
最大功率(Pmax)温度系数 Temperature coefficient of maximum power(Pmax)	-0.35%/°C
开路电压(Voc)温度系数 Temperature coefficient of open circuit voltage(Voc)	-0.3%/°C
短路电流(Isc)温度系数 Temperature coefficient of short circuit current(Isc)	+0.050%/°C

极限参数 / Maximum Ratings

工作温度 Working temperature	-40~+85°C
最大系统电压 Maximum system voltage	1500VDC
最大保险丝额定电流 Maximum fuse rated current	15A
防火等级 Fire safety class	C