

M6单晶144半片高效组件

M6 Monocrystalline Half-cell Module (144 Half Cells)

440-465W

输出功率 / Output power

21.39%

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。

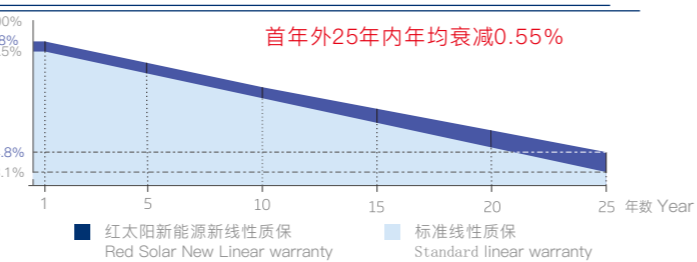
25-year linear warranty, lower power attenuation rate, increased return on investment

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.

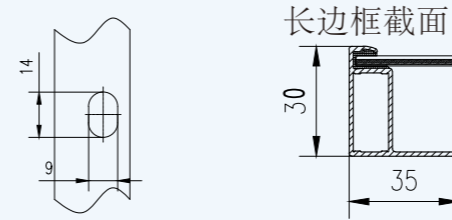
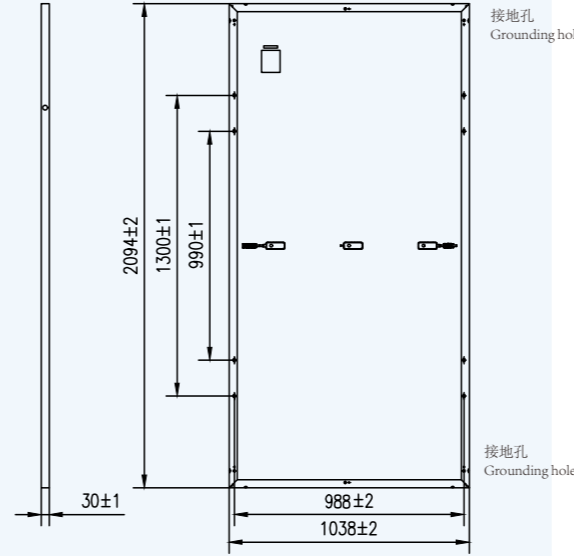
12年产品质保·25年线性功率保证



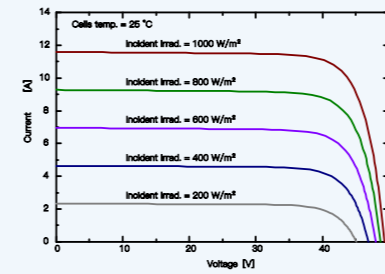
组件型号
Model of PV Module
CETC-xxxM(H)/144

功率范围
Power Range
440-465W

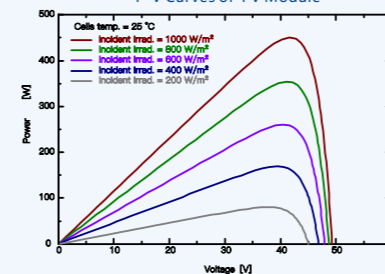
组件尺寸 (mm)
PV Module Dimension



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	440M	445M	450M	455M	460M	465M
最大功率/Maximum power	440	445	450	455	460	465
工作点电压/Working point voltage	41.10	41.30	41.50	41.70	41.86	42.04
工作点电流/Working point current	10.71	10.78	10.85	10.92	10.99	11.06
开路电压/Open circuit voltage	49.10	49.30	49.50	49.70	49.90	50.10
短路电流/Short circuit current	11.31	11.38	11.45	11.51	11.57	11.63
组件效率/PV module efficiency	20.24%	20.47%	20.70%	20.93%	21.16%	21.39%
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	440M	445M	450M	455M	460M	465M
最大功率/Maximum power	328.6	332.3	336.1	339.8	343.1	347.2
工作点电压/Working point voltage	38.30	38.50	38.60	38.80	38.98	39.23
工作点电流/Working point current	8.59	8.64	8.70	8.75	8.80	8.85
开路电压/Open circuit voltage	45.80	46.00	46.20	46.40	46.60	46.80
短路电流/Short circuit current	9.27	9.33	9.38	9.43	9.48	9.53
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	2094*1038*30mm
电池片数量 / Number of solar cells	144片 (2*6*12)
重量 / Weight	23Kg ±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&运输 (Packaging&Transport)

40尺集装箱运输 / 40'HQ container transport	36 Pcs/box x 22 box = 792 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	20A
防火等级 Fire safety class	C