

多主栅单晶144片高效半片组件

MBB Monocrystalline Half-cell Module (144 Half Cells)



530-550W

输出功率 / Output power

21.3%

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)



1 抗PID保证 / PID Resistant Guarantee

严选的封装材料免除PID风险。
Strict selection of encapsulation materials eliminates PID risk.

2 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.

3 抗热斑性能 / Hot-spot Resistance

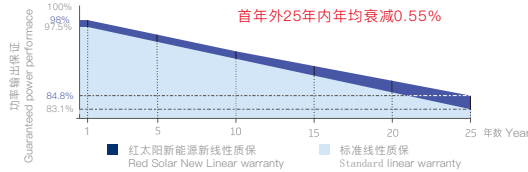
更低的内部电流和回路功率, 有效降低热斑致热。
Lower internal current and power to effectively reduce hot-spot heating.

4 多主栅技术 / Multi Busbar Technology

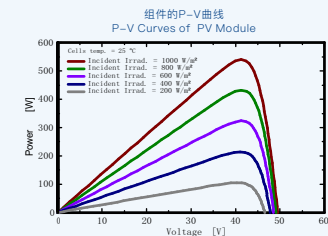
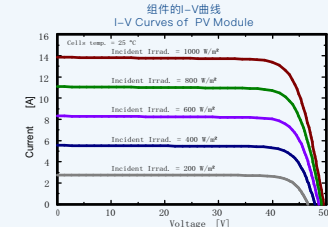
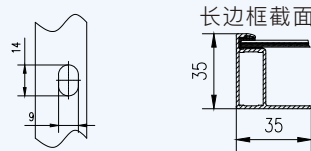
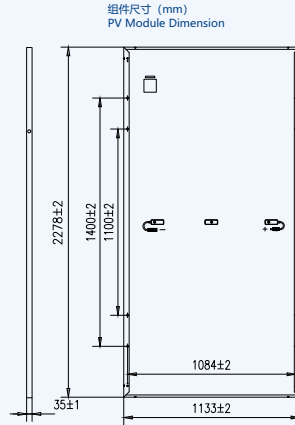
更优的光线利用率和电流收集能力, 有效提升产品功率输出和可靠性。
Better light utilization and current collection ability, effectively improve the power output and reliability.

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
CEC-xxxM(H)/144 | 功率范围 / Power Range
530-550W



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

型号/Model	530M	535M	540M	545M	550M
最大功率/Maximum power	530	535	540	545	550
工作点电压/Working point voltage	41.35	41.50	41.65	41.80	41.95
工作点电流/Working point current	12.83	12.90	12.97	13.04	13.12
开路电压/Open circuit voltage	49.20	49.35	49.50	49.65	49.80
短路电流/Short circuit current	13.72	13.78	13.85	13.92	13.98
组件效率/PV module efficiency	20.53%	20.73%	20.92%	21.12%	21.31%
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	530M	535M	540M	545M	550M
最大功率/Maximum power	395	398	402	405	409
工作点电压/Working point voltage	37.95	38.00	38.25	38.39	38.57
工作点电流/Working point current	10.41	10.47	10.52	10.57	10.62
开路电压/Open circuit voltage	45.8	46.00	46.10	46.20	46.40
短路电流/Short circuit current	11.07	11.13	11.19	11.24	11.29

NMOT 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	2278*1133*35mm
电池片数量 / Number of solar cells	144片 (2*6*12)
重量 / Weight	27.3kg ±5%
接线盒 / Junction Box	IP68, 兼容MC4
线缆 / Cables	4mm², +300mm±200mm (盒接头, 可定制 / Customizable)
前板玻璃 / Front plate glass	超白, 减反射钢化玻璃/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

包装及运输 (Packaging&Transport)

40尺集装箱运输 / 40HQ container transport	31 Pcs/box × 20 box = 620 Pcs
17.5米车运输 / 17.5m truck transport	31 Pcs/box × 28 box = 868 Pcs

温度参数 / Temperature Parameter

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)	-0.35%/°C	最大系统电压 / Maximum system voltage	1500VDC
开路电压(Voc)温度系数 / Temperature coefficient of open circuit voltage(Voc)	-0.28%/°C	最大保险丝额定电流 / Maximum fuse rated current	25A
短路电流(Isc)温度系数 / Temperature coefficient of short circuit voltage(Isc)	+0.048%/°C		