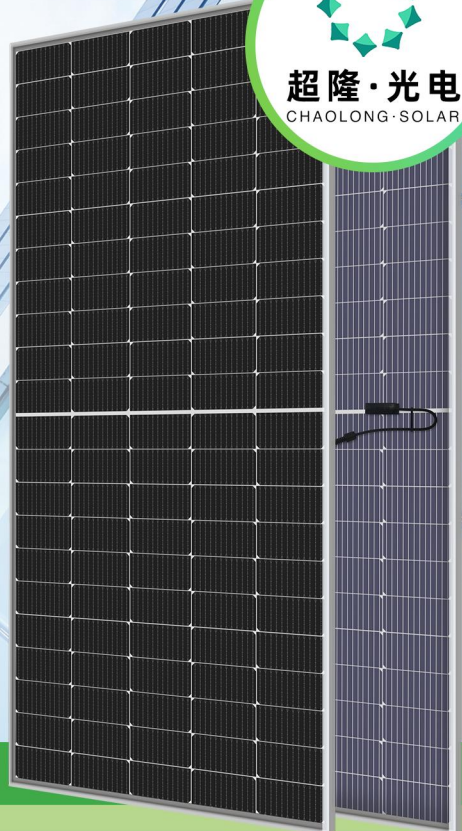




530~550W CL210M110HBG

- 110片
110 Pcs
- 半片
Half Cell
- 双面电池
Bifacial Cell
- 单晶组件
Mono Module



双玻 | Double Glass



双面发电
正反双面发电，综合发电增益明显

Dual-Glass Generation Power

Generation Power by both sides which brings higher Comprehensive Yield



匹配严酷环境
耐盐雾，耐氨气，耐沙尘

Harsh Environment Adaptability

Excellent resistance on Salt mist, Ammonia and Dust sand



多主栅设计
更优秀的光线利用率和电流收集能力，有效提升产品功率输出

Multi Bus-bar Design

Better light utilization and current collection capabilities, effectively improve the power output of the product



优异的机械载荷
可承载5400Pa雪载和2400Pa风压

Robust Mechanical Durability

Excellent resistance of 5400 Pa snow load and 2400 Pa wind load



优异的抗隐裂性能
生产和搬运过程中展示优异的抗隐裂性能

Anti-micro crack

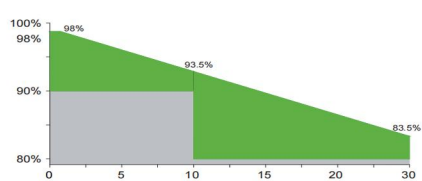
Excellent performance of anti-micro crack during production and transportation.

认证 | Certifications



质量保证 | Warranty Assurance

- 12年 原材料与工艺保证 | Warranty for Materials and Processing
- 30年 线性功率保证 | Warranty for Extra Linear Power Output



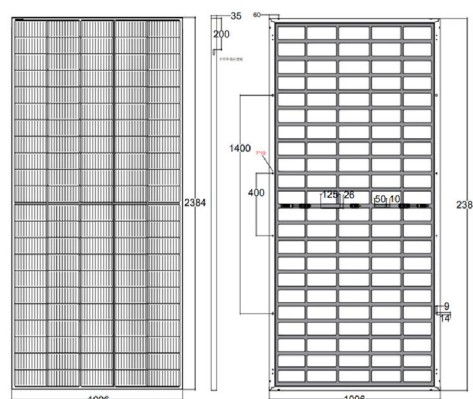


应用条件 | Operation Conditions

| | | | |
|-----------|------------------------------|------|-----------------|
| 最大风载 / 雪载 | Max. Wind load and Snow load | 【Pa】 | 2400Pa / 5400Pa |
| 安全等级 | Protection Class | / | Class II |
| 防火等级 | Fire Rating | / | Class A / UL790 |

包装和装车信息 | Package and loading Information

| | | | |
|-----|-------------------|----------|-------------------------------|
| 平板车 | Truck (17.5m) | 【片 / Pc】 | 868 |
| 集装箱 | Container | 【片 / Pc】 | 620 (40'HQ) / 124 (20'GP) |
| 单包 | Individual Pallet | 【片 / Pc】 | 31 |



物理结构参数 | Physical Construction Parameters

| | | | |
|----------------|--------------------------|--------------------|--------------------------------------|
| 电池片类型 | Type of Cell | / | P 型单晶 Mono (P type) |
| 半片电池数量 | Number of half-cell | 【片 / Pc】 | 110 |
| 组件尺寸 长 X 宽 X 高 | Module sizes: L*W*H | 【mm】 | 2384X1096X35 |
| 组件重量 | Weight | 【kg】 | 33.1 (±3%) |
| 边框材质 | Frame | / | 阳极氧化 Anodised Aluminum |
| 接线盒 | J-Box | / | IP68,3 diodes 3 个二极管 |
| 线缆截面积 | Diameter of Cable | 【mm ² 】 | 4 mm ² (IEC) / 12AWG (UL) |
| 标准线缆长度 | Standard length of Cable | 【mm】 | 300 mm or customized |

电性参数 | Electricity Parameters

| 内容 | Items | UNIT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
|------------|-----------------------------------|------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 最大功率 | Max. Power Output Pmax | 【W】 | 530 | 401.5 | 535 | 405.3 | 540 | 409 | 545 | 412.8 | 550 | 416 |
| 最大功率点的工作电压 | Max. Power Voltage Vmp | 【V】 | 31.06 | 28.82 | 31.26 | 29.01 | 31.46 | 29.19 | 31.7 | 29.38 | 31.86 | 29.57 |
| 最大功率点的工作电流 | Max. Power Current Imp | 【A】 | 17.07 | 13.93 | 17.12 | 13.97 | 17.17 | 14.01 | 17.22 | 14.05 | 17.27 | 14.09 |
| 开路电压 | Open Circuit Voltage Voc | 【V】 | 37.38 | 34.76 | 37.58 | 34.95 | 37.78 | 35.14 | 38.02 | 35.36 | 38.24 | 35.56 |
| 短路电流 | Short Circuit Current Isc | 【A】 | 18.08 | 14.83 | 18.13 | 14.87 | 18.18 | 14.91 | 18.23 | 14.95 | 18.28 | 14.99 |
| 组件效率 | Module Efficiency | 【%】 | 20.28 | 15.37 | 20.48 | 15.51 | 20.68 | 15.65 | 20.86 | 15.80 | 21.05 | 15.92 |
| 工作温度 | Operation Temperature | 【℃】 | -40℃ ~ +85℃ | | | | | | | | | |
| 最大系统电压 | Max. System Voltage | 【V】 | 1500V DC (IEC) | | | | | | | | | |
| 最大保险丝额定电流 | Max. Over Current | 【A】 | 30A | | | | | | | | | |
| 输出功率公差 | Power Output Tolerance | 【W】 | 0~+5W | | | | | | | | | |
| 最大功率温度系数 | Temperature Coefficient of Pmp | 【℃】 | -0.34%/℃ | | | | | | | | | |
| 开路电压温度系数 | Temperature Coefficient of Voc | 【℃】 | -0.25%/℃ | | | | | | | | | |
| 短路电流温度系数 | Temperature Coefficient of Isc | 【℃】 | +0.048%/℃ | | | | | | | | | |
| 标称电池工作温度 | Normal Operating Cell Temperature | 【℃】 | 44±2 | | | | | | | | | |

* 根据安装和反射角度的不同，背面产生的功率增益的理论值在 5%~25%。

The theoretical value of the power gain generated on back side is 5% to 25% depending on the installation and reflection angle.

STC: ☀️ 辐照度: Irradiance 1000W/ m²

🌡️ 电池温度 Cell Temperature: 25℃

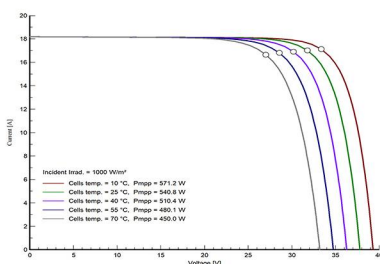
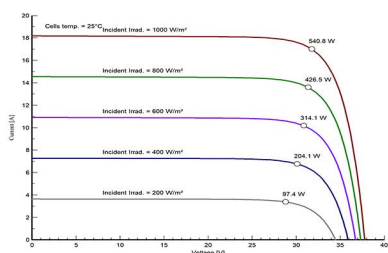
☀️ 光谱 Spectrum AM 1.5G

NOCT: ☀️ 辐照度: Irradiance 800W/ m²

🌡️ 环境温度 Ambient Temperature: 20℃

☀️ 光谱 Spectrum AM 1.5G

🌀 风速 Wind Speed 1m/s



* 功率测试误差: ±3%
Tolerance during Power test: ±3%

* 产品规格改变时可能不另行通知
Product specifications may change without notice

* 超隆光电保留最终解释权
ChaoLong Solar reserves the right of final interpretation

| | | | |
|--------------------------|--|---------------------------------------|---------------------------------|
| 0~+5W | <0.5% | <2% | 21.05% |
| 正公差 Positive Tolerance | 2 到 30 年衰减 Year 2-30 Power Degradation | 较低的运行温度 Lower Operating Temperature | 最大组件效率 Max. Module Efficiency |