

CST430~465M8-72H

144-CELL HALF CUT Monocrystalline Solar Module

166mm Mono PERC Solar Cell(9BB-Half)

465W

Maximum Power Output

21.0%

Maximum Efficiency

0~+5W

Positive Power Tolerance



Low hotspot risk

Special cutting and soldering technology leads to low hotspot risk.



Excellent weak light performance

More power output in weak light condition such as haze cloudy and morning.



Certified to withstand

Wind load (2400 Pascal) and snow load (5400 Pascal).



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline.

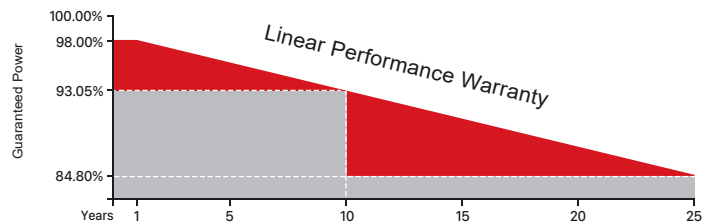


High PID resistant

Advanced cell technology and qualified materials lead to high resistance to PID.

体系及产品认证

- IEC61215 / IEC61730 / IEC61701 / IEC62716
- ISO9001: Quality Management System
- ISO14001: Environment Management System
- OHSAS18001: Occupational Health and Safety System



• 12-year product warranty • 25-year linear power warranty

CST430~465M8-72H

Monocrystalline

Electrical Characteristics(STC)

| PV module model | CST430M8-72H | CST435M8-72H | CST440M8-72H | CST445M8-72H | CST450M8-72H | CST455M8-72H | CST460M8-72H | CST465M8-72H |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Maximum Power - Pmax(W) | 430 | 435 | 440 | 445 | 450 | 455 | 460 | 465 |
| Open Circuit Voltage - Voc(V) | 48.69 | 48.99 | 49.25 | 49.55 | 49.84 | 50.10 | 50.39 | 50.68 |
| Short Circuit Current - Isc(A) | 11.22 | 11.25 | 11.28 | 11.31 | 11.34 | 11.37 | 11.40 | 11.43 |
| Voltage at Pmax-Vmp(V) | 40.72 | 41.08 | 41.40 | 41.75 | 42.10 | 42.41 | 42.76 | 43.10 |
| Current at Pmax-Imp(A) | 10.56 | 10.59 | 10.63 | 10.66 | 10.69 | 10.73 | 10.76 | 10.79 |
| Module Efficiency- η m(%) | 19.5 | 19.7 | 19.9 | 20.1 | 20.4 | 20.6 | 20.8 | 21.0 |
| Power Output Tolerance(W) | 0~+5 | | | | | | | |

STC: Irradiance 1000 W/m², Module Temperature 25°C, Air Mass AM1.5

Electrical Characteristics(NOCT)

| Maximum Power - Pmax(W) | 314 | 317 | 321 | 325 | 329 | 332 | 336 | 340 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Open Circuit Voltage - Voc(V) | 45.04 | 45.30 | 45.56 | 45.82 | 46.08 | 46.34 | 46.60 | 46.86 |
| Short Circuit Current - Isc(A) | 9.06 | 9.09 | 9.12 | 9.14 | 9.17 | 9.19 | 9.22 | 9.25 |
| Voltage at Pmax-Vmp(V) | 37.26 | 37.55 | 37.84 | 38.13 | 38.42 | 38.71 | 39.00 | 39.29 |
| Current at Pmax-Imp(A) | 8.42 | 8.45 | 8.48 | 8.52 | 8.55 | 8.59 | 8.62 | 8.65 |

NOCT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s

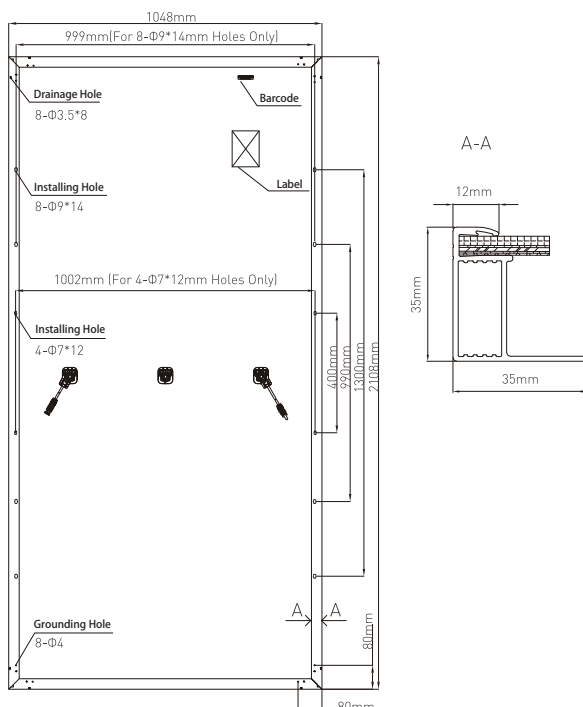
Temperature Characteristics

| | |
|---|-----------|
| Pmax Temperature Coefficient | -0.36%/C |
| Voc Temperature Coefficient | -0.28%/C |
| Isc Temperature Coefficient | +0.05%/C |
| Operating Temperature | -40~+85 C |
| Nominal Operating Cell Temperature (NOCT) | 45±2 C |

Mechanical Specifications

| | |
|------------------------|--|
| External Dimensions | 2108*1048*35mm |
| Weight | 25.6kg |
| Solar Cells | monocrystalline 144(72*2)pcs |
| Front Glass | High transparency solar glass 3.2mm |
| Frame | Anodized aluminum alloy |
| Junction Box | IP68 rated |
| Output Cables | 4.0mm ² , Portrait: 300mm/300mm |
| Connector | MC4 Compatible |
| Wind/Snow Load | 2400Pa/5400Pa |
| Maximum System Voltage | 1000/1500V DC |
| Max Series Fuse Rating | 20A |

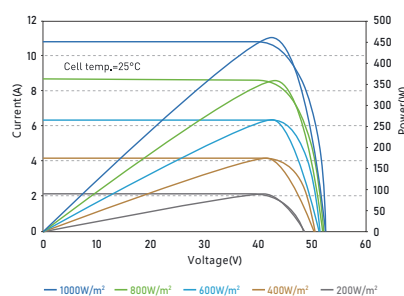
Module Dimension



Packing Configuration

| | |
|---------------------------|------------|
| Modules per pallet | 31 pieces |
| Modules per 40' container | 682 pieces |

I-V/P-V Curve at Different Irradiation (455W)



I-V Curve at Different Temperature (455W)

