

CST-M10/66BH

500-510W PERC

132 HALF-CELL MONOFACIAL ALL-BLACK MODULE

Characteristic



Super Safety and Reliability
No hidden welding crack, low operating temperature, high pressure resistance.



Low Hot Spot Risk
Parallel circuit design reduces shading loss.



Beautiful Appearance
Uniform layout, better aesthetic.

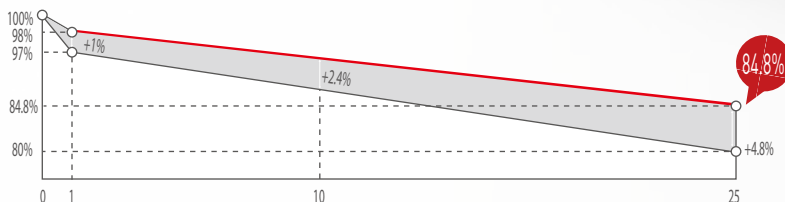


Low System Cost
High module efficiency, reducing system cost.

21.7%

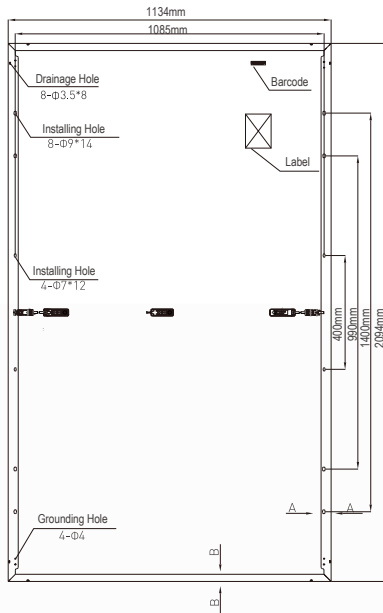
Max Module
Efficiency

Consort Linear Warranty

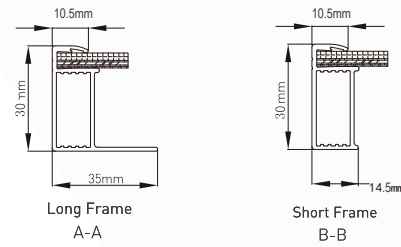


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

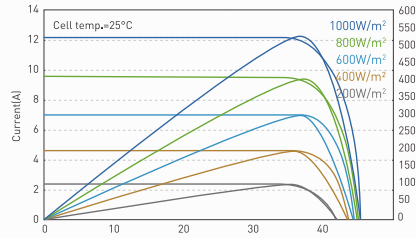
ENGINEERING DRAWING (mm)



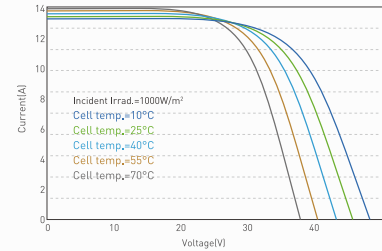
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (510W)



I-V CURVE AT DIFFERENT TEMPERATURE (510W)



Electrical Characteristics (STC/NMOT)

| PV module model | CST-M10/66BH 495 | | CST-M10/66BH 500 | | CST-M10/66BH 505 | | CST-M10/66BH 510 | | CST-M10/66BH 515 | |
|--------------------------------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power - Pmax(W) | 495 | 374.6 | 500 | 378.4 | 505 | 382.2 | 510 | 386.0 | 515 | 389.8 |
| Open Circuit Voltage - Voc(V) | 45.61 | 43.06 | 45.82 | 43.26 | 46.13 | 43.55 | 46.34 | 43.75 | 46.55 | 43.95 |
| Short Circuit Current - Isc(A) | 13.63 | 10.91 | 13.66 | 10.94 | 13.72 | 10.99 | 13.74 | 11.00 | 13.77 | 11.03 |
| Voltage at Pmax-Vmp(V) | 38.55 | 35.76 | 38.85 | 36.03 | 39.09 | 36.26 | 39.38 | 36.52 | 39.68 | 36.80 |
| Current at Pmax-Imp(A) | 12.84 | 10.48 | 12.87 | 10.50 | 12.92 | 10.54 | 12.95 | 10.57 | 12.98 | 10.59 |
| Module Efficiency-ηm(%) | 20.8 | | 21.1 | | 21.3 | | 21.5 | | 21.7 | |
| Power Output Tolerance(W) | 0~+5 | | | | | | | | | |

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

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

Mechanical Data

| | |
|---------------------|---|
| Number of Cells | 182mm monocrystalline 132 pieces(66x2) |
| External Dimensions | 2094x1134x30mm |
| Weight | 26.5kg |
| Front glass | High transparency solar glass 3.2mm |
| Frame | Black, Anodized aluminum alloy |
| Junction Box | IP68 rated |
| Output Cables | 4.0mm ² , 280 mm in length,length can be customized/UV resistant |
| Wind/Snow Load | 2400Pa/5400Pa |
| Connector | MC4 compatible |

Temperature Characteristics

| | |
|---|-----------|
| Nominal Module Operating Temperature (NMOT) | 43±2°C |
| Isc Temperature Coefficient | +0.05%/°C |
| Voc Temperature Coefficient | -0.28%/°C |
| Pmax Temperature Coefficient | -0.36%/°C |

Maximum Ratings

| | |
|-------------------------|-----------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1500V DC |
| Max Series Fuse Rating | 25A |

Power measurement error + / - 3%

Packaging Configuration

| | |
|---------------------------|------------|
| Module per pallet | 36 pieces |
| Modules per 40' container | 792 pieces |

PARAMETER