

CST-M10/60H

455-465W PERC

120 HALF-CELL MONOFACIAL MODULE

Characteristic



Better light trapping and current collection
Improve module power output and reliability



PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Optimized electrical design
lower operating current for reduced hot spot loss and better temperature coefficient.

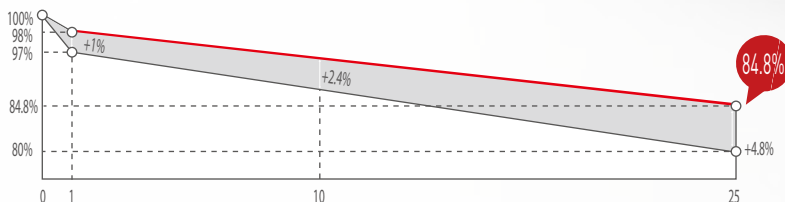


Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

21.7%

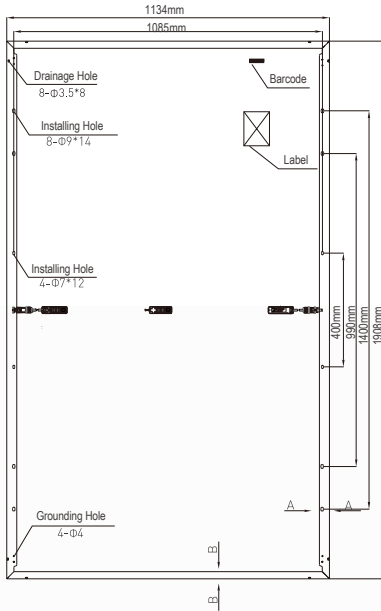
Max Module
Efficiency

Consort Linear Warranty

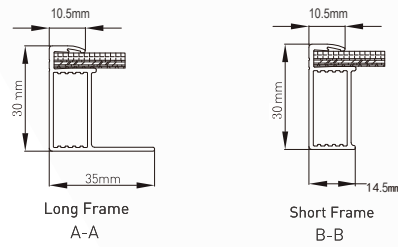


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

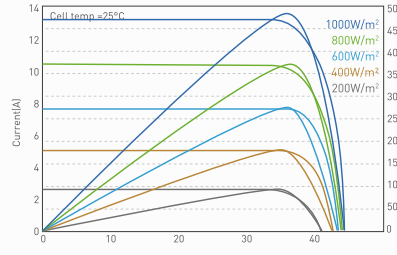
ENGINEERING DRAWING (mm)



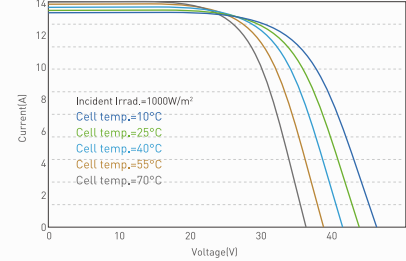
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (465W)



I-V CURVE AT DIFFERENT TEMPERATURE (465W)



Electrical Characteristics (STC/NMOT)

| PV module model | CST-M10/60H 450 | | CST-M10/60H 455 | | CST-M10/60H 460 | | CST-M10/60H 465 | | CST-M10/60H 470 | |
|--------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power - Pmax(W) | 450 | 340.6 | 455 | 344.4 | 460 | 348.2 | 465 | 352.0 | 470 | 355.7 |
| Open Circuit Voltage - Voc(V) | 41.03 | 38.74 | 41.18 | 38.90 | 41.33 | 39.00 | 41.48 | 39.16 | 41.63 | 39.30 |
| Short Circuit Current - Isc(A) | 13.61 | 10.90 | 13.69 | 10.97 | 13.78 | 11.03 | 13.86 | 11.10 | 13.95 | 11.17 |
| Voltage at Pmax-Vmp(V) | 34.62 | 32.11 | 34.77 | 32.25 | 34.92 | 32.39 | 35.07 | 32.53 | 35.22 | 32.67 |
| Current at Pmax-Imp(A) | 13.00 | 10.60 | 13.08 | 10.67 | 13.17 | 10.75 | 13.26 | 10.82 | 13.35 | 10.89 |
| Module Efficiency-ηm(%) | 20.7 | | 21.0 | | 21.2 | | 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 120 pieces(60x2) |
| External Dimensions | 1908x1134x30mm |
| Weight | 22.8kg |
| Front glass | High transparency solar glass 3.2mm |
| Frame | Black/Silver, 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 | 864 pieces |

PARAMETER