


CST-M8/72BH


450-460W PERC

144 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

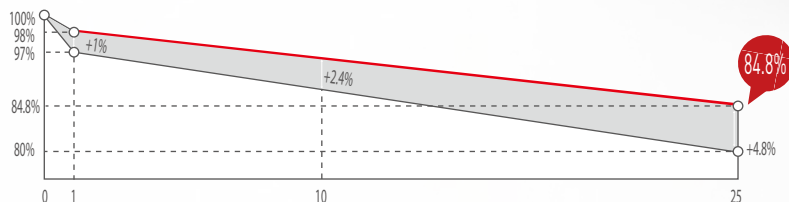
 **Beautiful Appearance**
Uniform layout, better aesthetic

 **Low System Cost**
High module efficiency, reducing system cost

21.4%

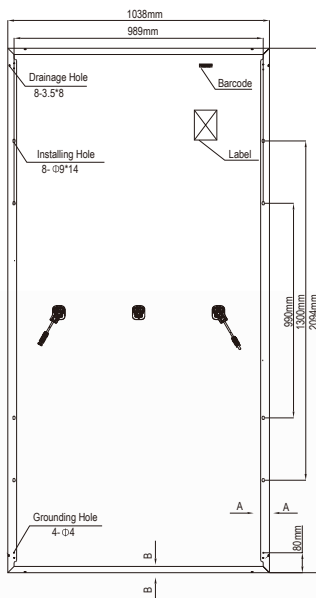
Max Module
Efficiency

Consort Linear Warranty

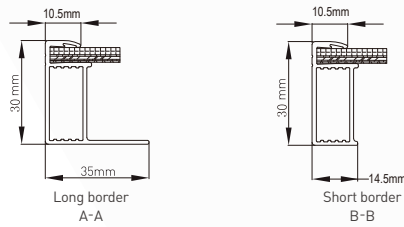


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

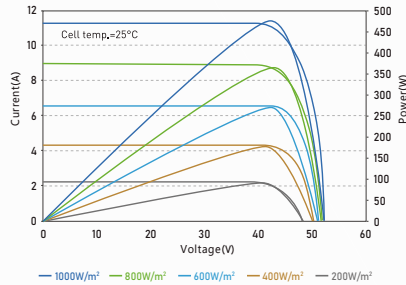
ENGINEERING DRAWING (mm)



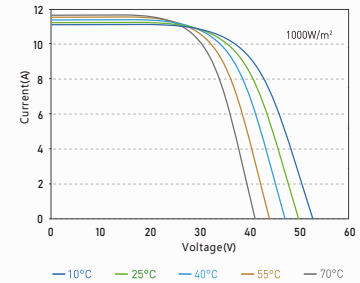
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (460W)



I-V CURVE AT DIFFERENT TEMPERATURE (460W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-M8/72BH 445		CST-M8/72BH 450		CST-M8/72BH 455		CST-M8/72BH 460		CST-M8/72BH 465	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	445	324.8	450	328.6	455	332.4	460	336.2	465	340.0
Open Circuit Voltage - Voc(V)	49.55	45.82	49.84	46.08	50.10	46.34	50.39	46.60	50.68	46.86
Short Circuit Current - Isc(A)	11.31	9.14	11.34	9.17	11.37	9.19	11.40	9.22	11.43	9.25
Voltage at Pmax-Vmp(V)	41.75	38.13	42.10	38.42	42.41	38.71	42.76	39.00	43.10	39.29
Current at Pmax-Imp(A)	10.66	8.52	10.69	8.55	10.73	8.59	10.76	8.62	10.79	8.65
Module Efficiency-ηm(%)	20.5		20.7		20.9		21.2		21.4	
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	166mm monocrystalline 144 pieces (72x2)
External Dimensions	2094x1038x30mm
Weight	23.3kg
Front glass	High transparency solar glass 3.2mm
Frame	Black, Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4.0mm ² , 230 mm in length, length can be customized/UV resistant
Wind/Snow Load	2400Pa/5400Pa
Connector	MC4 compatible

Packaging Configuration

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

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	20A

Power measurement error + / - 3%

PARAMETER