

CST-M10/72BH

545-555W 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.

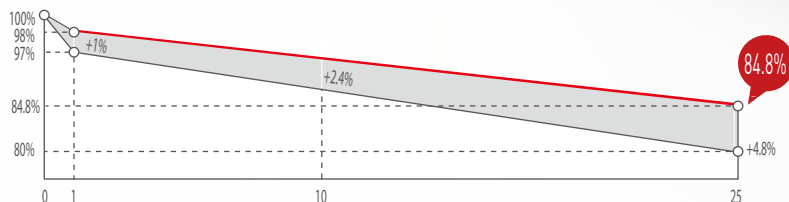


Low System Cost
High module efficiency, reducing system cost.

21.7%

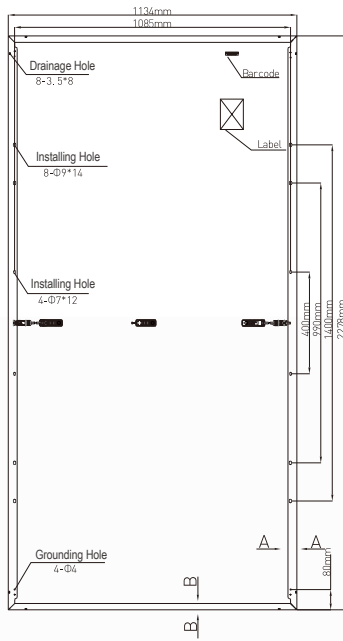
Max Module
Efficiency

Consort Linear Warranty

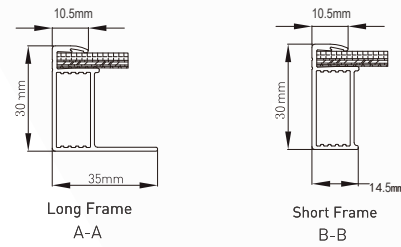


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

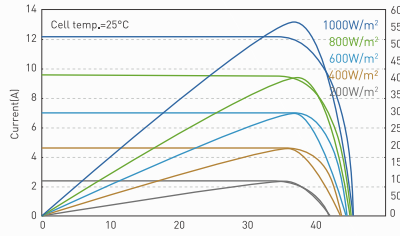
ENGINEERING DRAWING (mm)



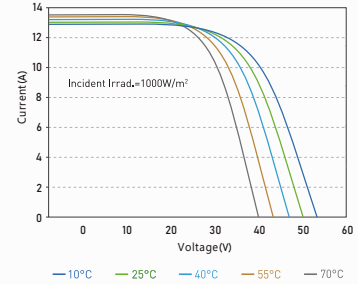
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (555W)



I-V CURVE AT DIFFERENT TEMPERATURE (555W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-M10/72BH 540		CST-M10/72BH 545		CST-M10/72BH 550		CST-M10/72BH 555		CST-M10/72BH 560	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	540	408.6	545	412.4	550	416.2	555	420.0	560	423.8
Open Circuit Voltage - Voc(V)	49.75	46.96	49.98	47.18	50.22	47.40	50.45	47.62	50.68	47.85
Short Circuit Current - Isc(A)	13.63	10.92	13.66	10.94	13.70	10.97	13.73	10.99	13.76	11.02
Voltage at Pmax-Vmp(V)	42.06	39.01	42.35	39.28	42.64	39.55	42.93	39.82	43.22	40.09
Current at Pmax-Imp(A)	12.84	10.47	12.87	10.50	12.90	10.52	12.93	10.55	12.96	10.57
Module Efficiency-ηm(%)	20.9		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 144 pieces(72x2)
External Dimensions	2278x1134x30mm
Weight	28.3kg
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	37 pieces
Modules per 40' container	740 pieces

PARAMETER