

CST-M10/78H

590-600W PERC

156 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.

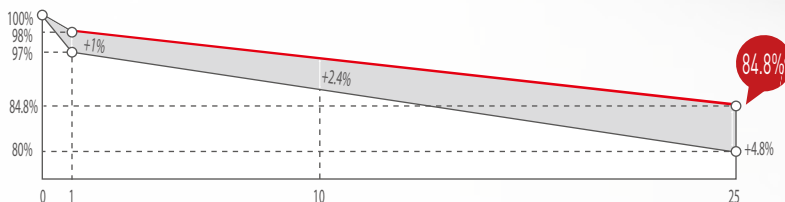


Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

21.7%

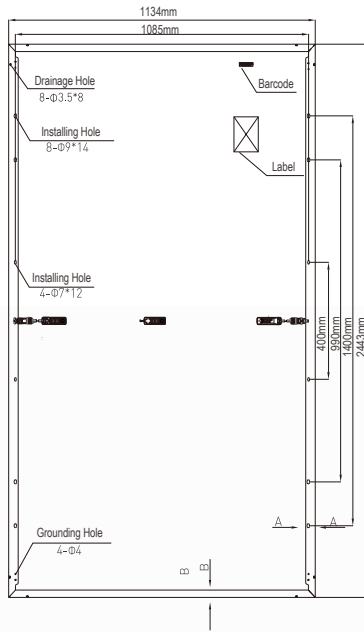
Max Module
Efficiency

Consort Linear Warranty

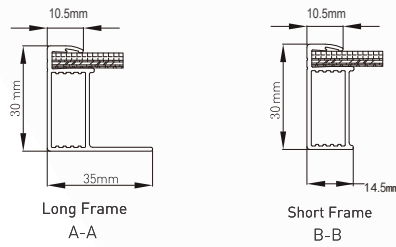


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

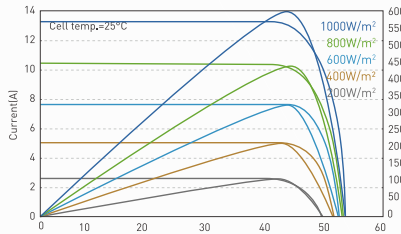
ENGINEERING DRAWING (mm)



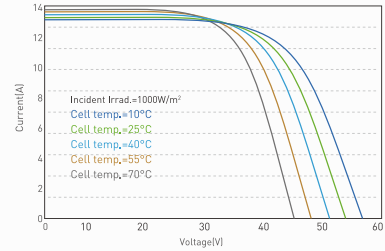
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (600W)



I-V CURVE AT DIFFERENT TEMPERATURE (600W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-M10/78H 585		CST-M10/78H 590		CST-M10/78H 595		CST-M10/78H 600	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	585	442.7	590	446.5	595	450.4	600	454.1
Open Circuit Voltage - Voc(V)	53.89	50.88	54.15	51.12	54.41	51.37	54.65	51.60
Short Circuit Current - Isc(A)	13.63	10.91	13.66	10.94	13.69	10.96	13.72	10.99
Voltage at Pmax-Vmp(V)	45.56	42.26	45.88	42.55	46.20	42.85	46.51	43.14
Current at Pmax-Imp(A)	12.84	10.48	12.86	10.49	12.88	10.51	12.90	10.53
Module Efficiency-ηm(%)	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 156 pieces(78x2)
External Dimensions	2443x1134x30mm
Weight	31kg
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	576 pieces

PARAMETER