

CST-M10/54H

405-415W PERC

108 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.

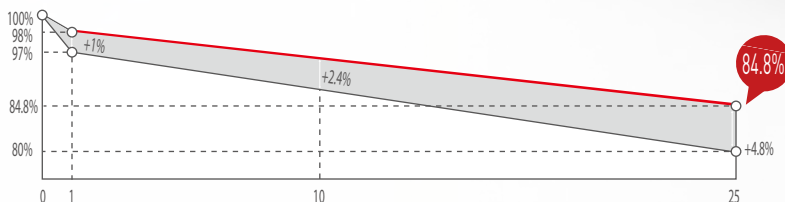


Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

21.5%

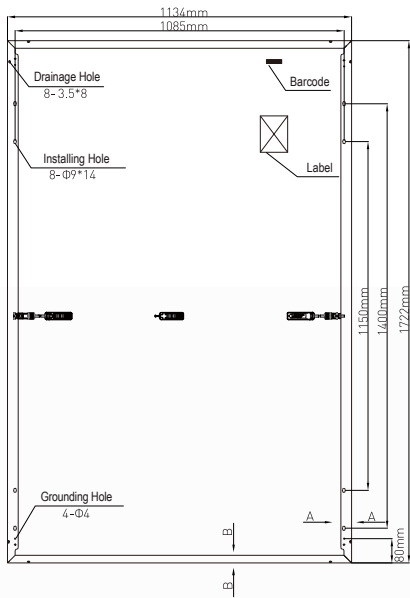
Max Module
Efficiency

Consort Linear Warranty

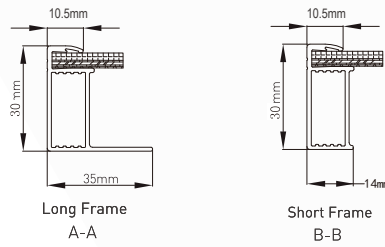


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

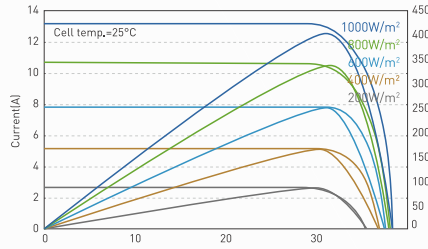
ENGINEERING DRAWING (mm)



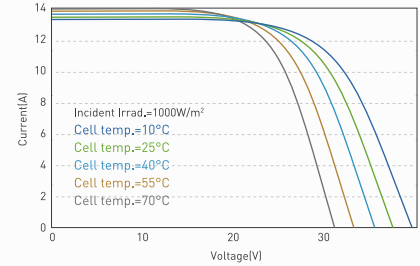
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (415W)



I-V CURVE AT DIFFERENT TEMPERATURE (415W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-M10/54H 400		CST-M10/54H 405		CST-M10/54H 410		CST-M10/54H 415		CST-M10/54H 420	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	400	302.8	405	306.6	410	310.3	415	314.1	420	317.9
Open Circuit Voltage - Voc(V)	36.78	34.72	36.93	34.86	37.08	35.00	37.23	35.15	37.38	35.29
Short Circuit Current - Isc(A)	13.52	10.82	13.61	10.90	13.70	10.97	13.80	11.05	13.89	11.12
Voltage at Pmax - Vmp(V)	31.01	28.76	31.16	28.90	31.31	29.04	31.46	29.18	31.61	29.32
Current at Pmax - Imp(A)	12.90	10.52	13.00	10.60	13.09	10.68	13.19	10.76	13.29	10.84
Module Efficiency - ηm(%)	20.5		20.7		21.0		21.3		21.5	
Power Output Tolerance(W)	0~+5									

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

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

Mechanical Data

Number of Cells	182mm monocrystalline 108 pieces(54x2)
External Dimensions	1722x1134x30mm
Weight	20.8kg
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
Voc Temperature Coefficient	25A

Power measurement error + / - 3%

Packaging Configuration

Module per box	36 pieces
Modules per 40' container	936 pieces

PARAMETER