CST-M10/54H

108 HALF-CELL MONOFACIAL MODULE
400-415W

21.3%
MAX MODULE EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

MORE POWER

- Up to 415W front power and 21.3% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings
- Lower resistance of half-cut and good reflection effect of MBB ensure high power

- Better light trapping and current collection to improve module power output and reliability.

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

MORE RELIABLE

- Minimizes micro-crack impacts

- Ensured PID resistance through cell process and module material control

- Durability against extreme environmental conditions
- Resistant to salt, acid and ammonia

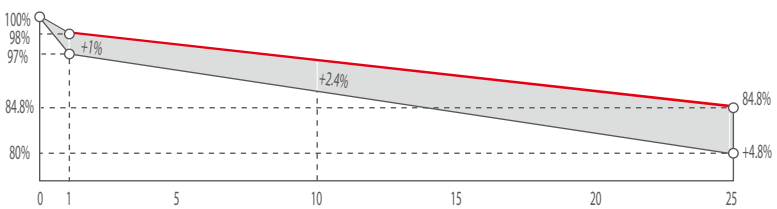
- Enhanced Mechanical Load*
  Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

* Please refer to Consort Solar Standard Module Installation Manual for details.

System and product certification

- IEC61215 / IEC61730 / IEC61701 / IEC62716
- ISO9001: Quality Management System
- ISO14001: Environment Management System
- OHSAS18001: Occupational Health and Safety System

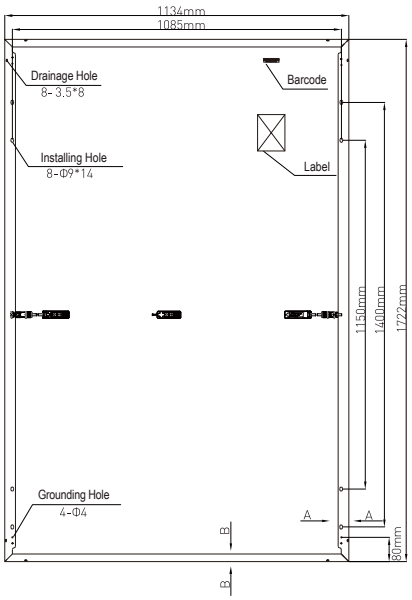
Industry-leading Warranty **



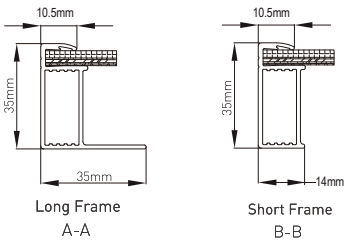
- First year power degradation: 2%
- Annual degradation: 0.55%
- Product warranty: 12 years
- linear warranty: 25 years

** Please refer to Consort Solar Limited Warranty for details.

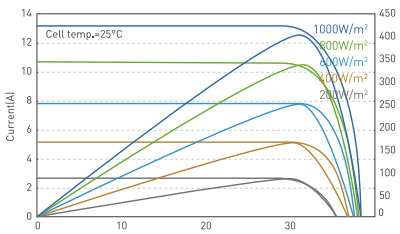
ENGINEERING DRAWING (mm)



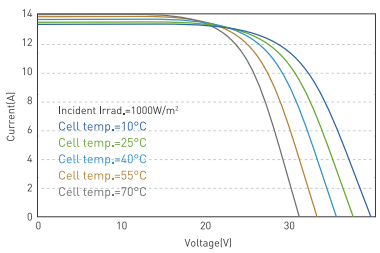
FRAME CROSS SECTION (mm)



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



I-V CURVE AT DIFFERENT TEMPERATURE (415W)



Electrical Characteristics(STC)

PV module model	CST-M10/54H 400	CST-M10/54H 405	CST-M10/54H 410	CST-M10/54H 415
Maximum Power - Pmax(W)	400	405	410	415
Open Circuit Voltage - Voc(V)	36.78	36.93	37.08	37.23
Short Circuit Current - Isc(A)	13.52	13.61	13.70	13.80
Voltage at Pmax-Vmp(V)	31.01	31.16	31.31	31.46
Current at Pmax-Imp(A)	12.90	13.00	13.09	13.19
Module Efficiency-ηm(%)	20.5	20.7	21.0	21.3
Power Output Tolerance(W)	0~+5			

STC: Irradiance 1000 W/m², Module Temperature 25°C, Air Mass AM1.5

Electrical Characteristics(NMOT)

Maximum Power - Pmax(W)	302.8	306.6	310.3	314.1
Open Circuit Voltage - Voc(V)	34.72	34.86	35.00	35.15
Short Circuit Current - Isc(A)	10.82	10.90	10.97	11.05
Voltage at Pmax-Vmp(V)	28.76	28.90	29.04	29.18
Current at Pmax-Imp(A)	10.52	10.60	10.68	10.76

NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Temperature Characteristics

Pmax Temperature Coefficient	-0.36%/℃
Voc Temperature Coefficient	-0.28%/℃
Isc Temperature Coefficient	+0.05%/℃
Operating Temperature	-40~+85℃
Nominal Module Operating Temperature (NMOT)	43±2℃

Mechanical Specifications

External Dimensions	1722x1134x35mm
Weight	20.8kg
Solar Cells	182mm monocrystalline 108(6x18)pcs
Front Glass	High transparency solar glass 3.2mm
Frame	Black/Silver, Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	length can be customized/4.0mm² , cable lenght:280mm(+)/280mm(-)
Connector	MC4 Compatible
Wind/Snow Load	2400Pa/5400Pa
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A

Packing Configuration

Modules per pallet	31 pieces
Modules per 40' container	806 pieces