

CST-M12/66H



132 HALF-CELL MONOFACIAL MODULE 645-665W

MORE POWER

- Up to 665W front power and 21.4% 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.

21.4%

MAX MODULE EFFICIENCY

0~+5W

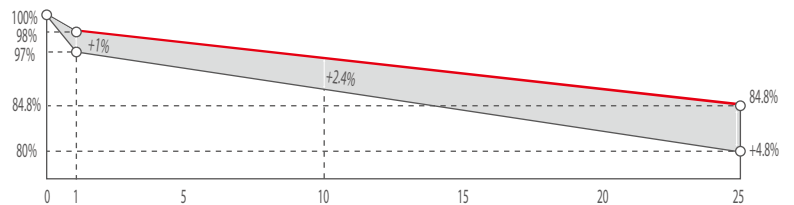
POSITIVE POWER TOLERANCE

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 **



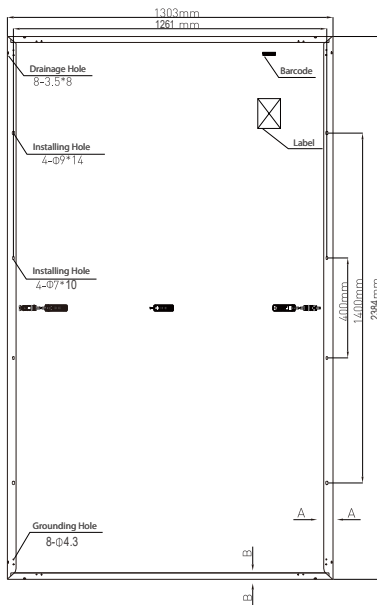
◆ First year power degradation: 2%

◆ Annual degradation: 0.55%

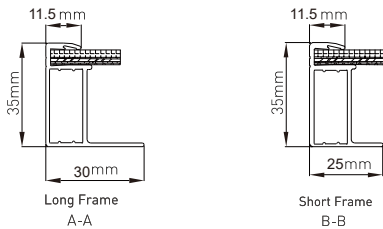
◆ Product warranty: 12 years

◆ linear warranty: 25 years

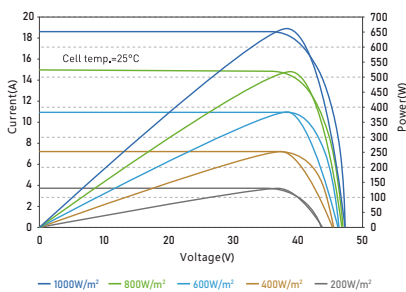
ENGINEERING DRAWING (mm)



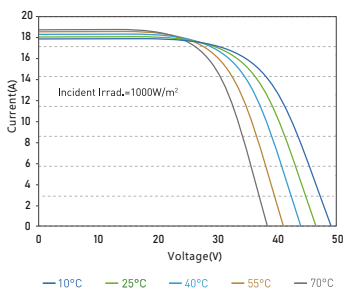
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (665W)



I-V CURVE AT DIFFERENT TEMPERATURE (665W)



Electrical Characteristics(STC)

PV module model	CST-M12/66H 645	CST-M12/66H 650	CST-M12/66H 655	CST-M12/66H 660	CST-M12/66H 665
Maximum Power - Pmax(W)	645	650	655	660	665
Open Circuit Voltage - Voc(V)	45.00	45.20	45.40	45.60	45.80
Short Circuit Current - Isc(A)	18.41	18.46	18.50	18.55	18.60
Voltage at Pmax-Vmp(V)	37.20	37.40	37.60	37.80	38.00
Current at Pmax-Imp(A)	17.34	17.38	17.42	17.46	17.50
Module Efficiency-ηm(%)	20.8	20.9	21.1	21.2	21.4
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)	488.0	491.8	495.6	499.4	503.1
Open Circuit Voltage - Voc(V)	42.39	42.58	42.77	42.96	43.14
Short Circuit Current - Isc(A)	14.84	14.88	14.92	14.96	15.00
Voltage at Pmax-Vmp(V)	34.70	34.89	35.08	35.26	35.45
Current at Pmax-Imp(A)	14.06	14.09	14.13	14.16	14.19

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

Temperature Characteristics

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

Mechanical Specifications

External Dimensions	2384x1303x35mm
Weight	34.0kg
Solar Cells	210mm monocrystalline 132(6x22)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/4.0mm ² , cable length:280mm(+)/280mm(-)
Connector	MC4 Compatible
Wind/Snow Load	2400Pa/5400Pa
Maximum System Voltage	1500V DC
Max Series Fuse Rating	30A

Packing Configuration

Modules per pallet	31 pieces
Modules per 40' container	558 pieces