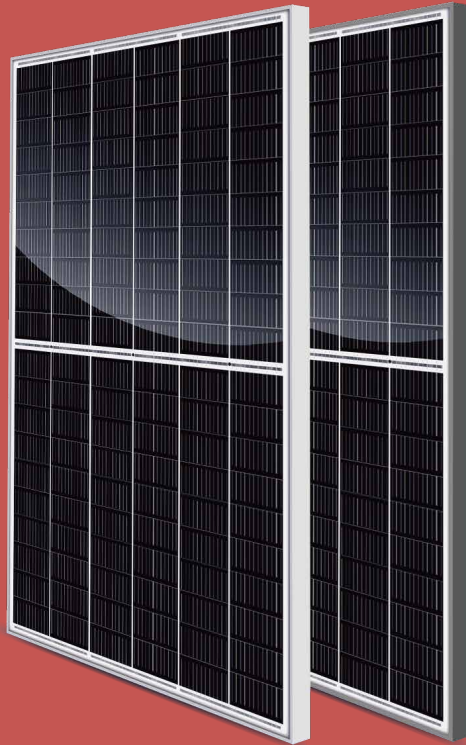


CST-M12/60H



120 HALF-CELL MONOFACIAL MODULE 580-605W

MORE POWER

- Up to 605W 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

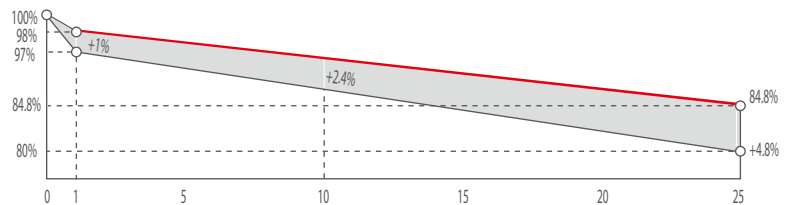
0~+5W

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 **



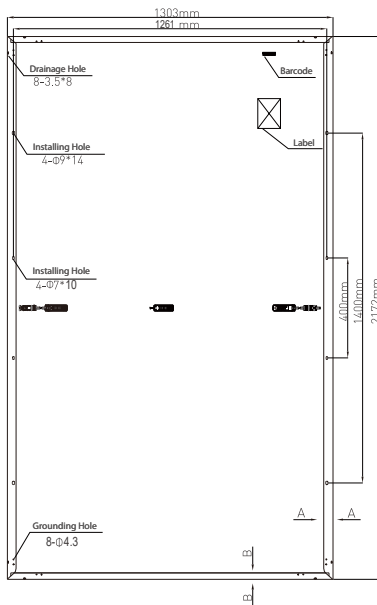
- ◆ First year power degradation: 2%
- ◆ Annual degradation: 0.55%

- ◆ Product warranty: 12 years
- ◆ linear warranty: 25 years

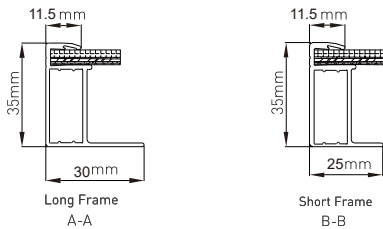
** Please refer to Consort Solar Limited Warranty for details.



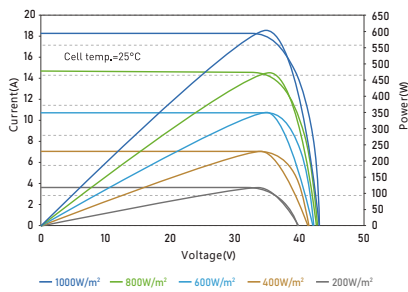
ENGINEERING DRAWING (mm)



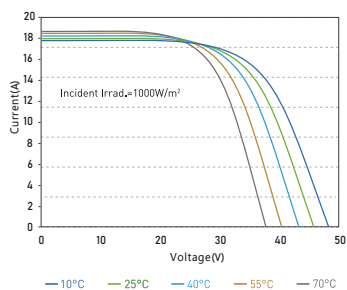
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (605W)



I-V CURVE AT DIFFERENT TEMPERATURE (605W)



Electrical Characteristics(STC)

PV module model	CST-M12/60H 585	CST-M12/60H 590	CST-M12/60H 595	CST-M12/60H 600	CST-M12/60H 605
Maximum Power - Pmax(W)	585	590	595	600	605
Open Circuit Voltage - Voc(V)	40.85	41.15	41.25	41.45	41.65
Short Circuit Current - Isc(A)	18.40	18.45	18.50	18.55	18.61
Voltage at Pmax-Vmp(V)	33.76	33.96	34.16	34.36	34.66
Current at Pmax-Imp(A)	17.33	17.37	17.41	17.46	17.50
Module Efficiency-ηm(%)	20.7	20.8	21.0	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)	442.6	446.4	450.2	454.0	457.7
Open Circuit Voltage - Voc(V)	38.48	38.67	38.86	39.05	39.24
Short Circuit Current - Isc(A)	14.83	14.87	14.92	14.96	15.00
Voltage at Pmax-Vmp(V)	31.50	31.69	31.88	32.06	32.25
Current at Pmax-Imp(A)	14.05	14.09	14.12	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	2172x1303x35mm
Weight	30.9kg
Solar Cells	210mm monocrystalline 120(6x20)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