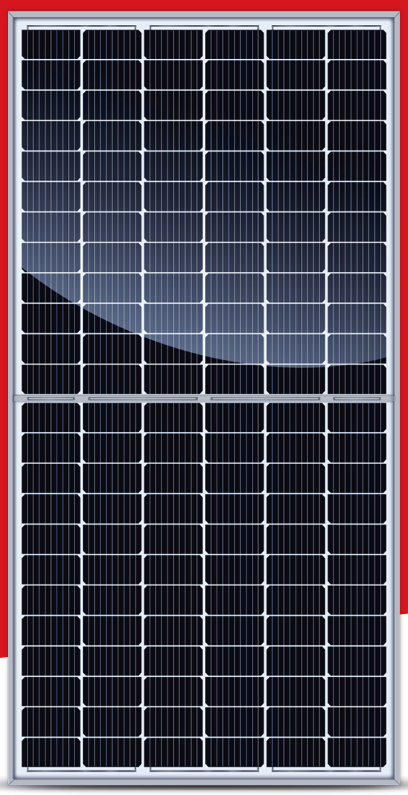
CONSORT®



CST420~460M8-72H

144-CELL HALF CUT Monocrystalline Solar Module

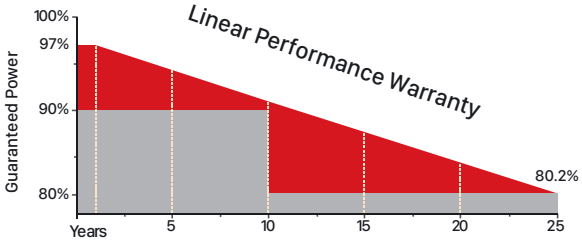
Large Size 166mm Mono PERC Solar Cell(9BB-Half)

CE SGS TÜV NORD Type Tested IEC61215 : 2016 IEC61730 : 2016

460W
Maximum Power Output

20.8%
Maximum Efficiency

0~+5W
Positive Power Tolerance



Low hotspot risk
Special cutting and soldering technology leads to low hotspot risk.

Excellent weak light performance
Weak Light
More power output in weak light condition such as haze cloudy and morning.

Certified to withstand
2400pa 5400pa
Wind load (2400 Pascal) and snow load (5400 Pascal).

Withstanding harsh environment
Harsh Environment
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline.

High PID resistant
PID Resistant
Advanced cell technology and qualified materials lead to high resistance to PID.

97.0% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from MODULE's nominal power output per year, ending with the 80.2% in the 25th year after the defined WARRANTY STARTING DATE.

- 12-year product warranty
- 25-year linear performance warranty

No 26,Xinhua Road,Wuxi City,China
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sales@cst-pv.com

CHANGING COLLABORATING CONSORTING
WUXI CONSORT SCIENCE TECHNOLOGY CO.,LTD

CST420~460M8-72H

Monocrystalline

Electrical Characteristics(STC)

PV module model	CST420M8 -72H	CST425M8 -72H	CST430M8 -72H	CST435M8 -72H	CST440M8 -72H	CST445M8 -72H	CST450M8 -72H	CST455M8 -72H	CST460M8 -72H
Maximum Power - Pmax(W)	420	425	430	435	440	445	450	455	460
Open Circuit Voltage - Voc(V)	48.80	49.00	49.20	49.40	49.60	49.80	50.00	50.20	50.40
Short Circuit Current - Isc(A)	11.04	11.11	11.19	11.26	11.33	11.40	11.47	11.54	11.61
Voltage at Pmax-Vmp(V)	40.20	40.40	40.60	40.80	41.00	41.20	41.40	41.60	41.80
Current at Pmax-Imp(A)	10.45	10.52	10.60	10.67	10.74	10.81	10.88	10.95	11.02
Module Efficiency-ηm(%)	19.0	19.2	19.5	19.7	19.9	20.1	20.4	20.6	20.8
Power Output Tolerance(W)	0~+5								

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

Electrical Characteristics(NOCT)

Maximum Power - Pmax(W)	315	318	322	326	330	334	338	342	345
Open Circuit Voltage - Voc(V)	45.70	45.90	46.10	46.30	46.50	46.70	46.90	47.10	47.30
Short Circuit Current - Isc(A)	8.95	9.02	9.08	9.13	9.19	9.25	9.31	9.36	9.41
Voltage at Pmax-Vmp(V)	37.30	37.50	37.70	37.90	38.10	38.20	38.30	38.40	38.50
Current at Pmax-Imp(A)	8.44	8.50	8.56	8.61	8.66	8.75	8.84	8.91	8.98

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

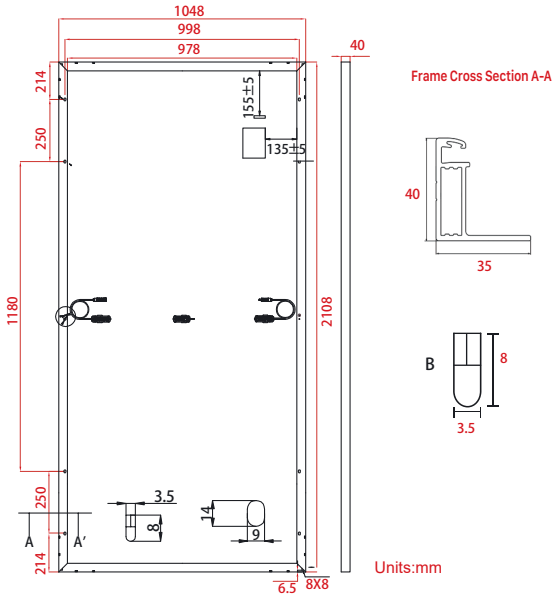
Temperature Characteristics

Pmax Temperature Coefficient	-0.36%/℃
Voc Temperature Coefficient	-0.28%/℃
Isc Temperature Coefficient	+0.05%/℃
Operating Temperature	-40~+85℃
Nominal Operating Cell Temperature (NOCT)	41±3℃

Mechanical Specifications

External Dimensions	2108*1048*40mm
Weight	24.0kg
Solar Cells	monocrystalline 144(72*2)pcs
Front Glass	High transparency solar glass 3.2mm
Frame	Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4.0mm², Landscape: N 1300mm/P 1300mm Portrait: N 150mm/P 300mm
Connector	MC4 Compatible
Wind/Snow Load	2400Pa/5400Pa
Maximum System Voltage	1000/1500V DC
Max Series Fuse Rating	20A

Engineering Drawings

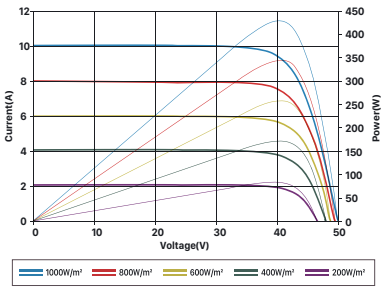


Packing Configuration

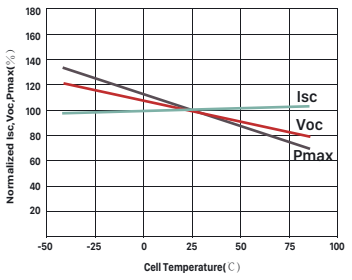
Modules per pallet	26 pieces
Modules per 40′ container	616 pieces

Packing Description: 22 Pallets, Total = (26+26+4) x 11 = 616 pieces

Current-Voltage&Power-Voltage Curve(430W)



Temperature Dependence of Isc,Voc,Pmax



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