

## CST430~465M8-72H

### 144-CELL HALF CUT Monocrystalline Solar Module

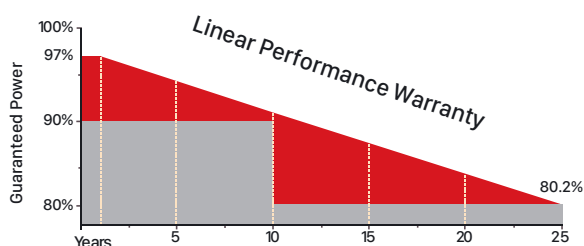
166mm Mono PERC Solar Cell(9BB-Half)



**465W**  
Maximum Power Output

**21.0%**  
Maximum Efficiency

**0~+5W**  
Positive Power Tolerance



#### Low hotspot risk

Special cutting and soldering technology leads to low hotspot risk.



#### Excellent weak light performance

More power output in weak light condition such as haze cloudy and morning.



#### Certified to withstand

Wind load (2400 Pascal) and snow load (5400 Pascal).



#### Withstanding harsh environment

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



#### High 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

# CST430~465M8-72H

Monocrystalline

## Electrical Characteristics(STC)

PV module model	CST430M8-72H	CST435M8-72H	CST440M8-72H	CST445M8-72H	CST450M8-72H	CST455M8-72H	CST460M8-72H	CST465M8-72H
Maximum Power - Pmax(W)	430	435	440	445	450	455	460	465
Open Circuit Voltage - Voc(V)	48.69	48.99	49.25	49.55	49.84	50.10	50.39	50.68
Short Circuit Current - Isc(A)	11.22	11.25	11.28	11.31	11.34	11.37	11.40	11.43
Voltage at Pmax-Vmp(V)	40.72	41.08	41.40	41.75	42.10	42.41	42.76	43.10
Current at Pmax-Imp(A)	10.56	10.59	10.63	10.66	10.69	10.73	10.76	10.79
Module Efficiency-ηm(%)	19.5	19.7	19.9	20.1	20.4	20.6	20.8	21.0
Power Output Tolerance(W)	0~+5							

STC: Irradiance 1000 W/m<sup>2</sup>, Module Temperature 25°C, Air Mass AM1.5

## Electrical Characteristics(NOCT)

Maximum Power - Pmax(W)	314	317	321	325	329	332	336	340
Open Circuit Voltage - Voc(V)	45.04	45.30	45.56	45.82	46.08	46.34	46.60	46.86
Short Circuit Current - Isc(A)	9.06	9.09	9.12	9.14	9.17	9.19	9.22	9.25
Voltage at Pmax-Vmp(V)	37.26	37.55	37.84	38.13	38.42	38.71	39.00	39.29
Current at Pmax-Imp(A)	8.42	8.45	8.48	8.52	8.55	8.59	8.62	8.65

NOCT: Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

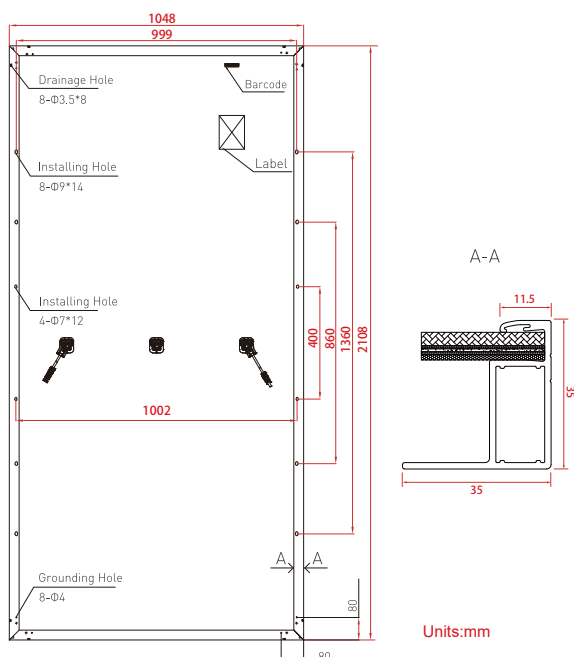
## Temperature Characteristics

Pmax Temperature Coefficient	-0.36%/°C
Voc Temperature Coefficient	-0.28%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85 C
Nominal Operating Cell Temperature (NOCT)	45±2 C

## Mechanical Specifications

External Dimensions	2108*1048*35mm
Weight	25.6kg
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	4.0mm <sup>2</sup> , Portrait: 300mm/300mm
Connector	MC4 Compatible
Wind/Snow Load	2400Pa/5400Pa
Maximum System Voltage	1000/1500V DC
Max Series Fuse Rating	20A

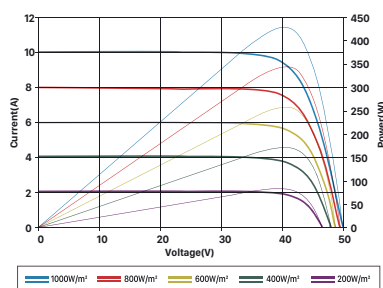
## Engineering Drawings



## Packing Configuration

Modules per pallet	30 pieces
Modules per 40' container	660 pieces

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



## Temperature Dependence of Isc, Voc, Pmax

