

## CST440~475M8-72HS

### 144-CELL HALF CUT Monocrystalline Solar Module

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

## 475W

Maximum Power Output

## 21.9%

Maximum Efficiency

## 0~+5W

Positive Power Tolerance

#### 体系及产品认证

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



#### 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).



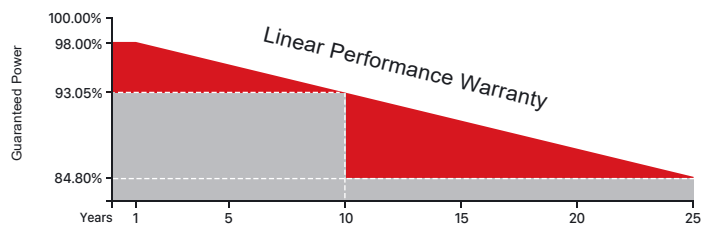
#### Withstanding harsh environment

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.



• 12-year product warranty • 25-year linear power warranty

# CST440~475M8-72HS

Monocrystalline

## Electrical Characteristics(STC)

PV module model	CST440M8-72HS	CST445M8-72HS	CST450M8-72HS	CST455M8-72HS	CST460M8-72HS	CST465M8-72HS	CST470M8-72HS	CST475M8-72HS
Maximum Power - Pmax(W)	440	445	450	455	460	465	470	475
Open Circuit Voltage - Voc(V)	49.30	49.60	49.80	50.10	50.40	50.70	51.00	51.30
Short Circuit Current - Isc(A)	11.28	11.31	11.34	11.37	11.40	11.43	11.47	11.50
Voltage at Pmax-Vmp(V)	41.40	41.80	42.10	42.40	42.80	43.10	43.40	43.80
Current at Pmax-Imp(A)	10.63	10.66	10.69	10.73	10.76	10.79	10.82	10.85
Module Efficiency- $\eta$ m(%)	20.2	20.5	20.7	20.9	21.2	21.4	21.6	21.9
Power Output Tolerance(W)	0~+5							

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

## Electrical Characteristics(NMOT)

Maximum Power - Pmax(W)	321.0	324.8	328.6	332.4	336.2	340.0	343.9	347.7
Open Circuit Voltage - Voc(V)	45.60	45.80	46.10	46.30	46.60	46.90	47.10	47.40
Short Circuit Current - Isc(A)	9.12	9.14	9.17	9.19	9.22	9.25	9.27	9.30
Voltage at Pmax-Vmp(V)	37.80	38.10	38.40	38.70	39.00	39.30	39.60	39.90
Current at Pmax-Imp(A)	8.48	8.52	8.55	8.59	8.62	8.65	8.69	8.72

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

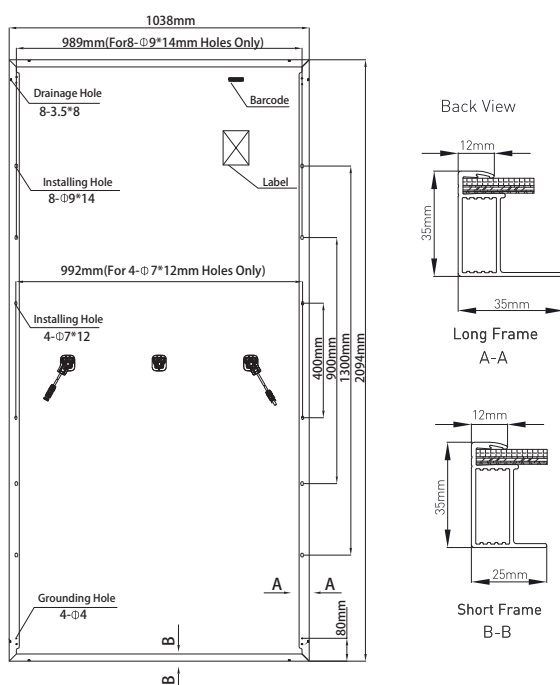
## Temperature Characteristics

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

## Mechanical Specifications

External Dimensions	2094x1038x35mm
Weight	24.2kg
Solar Cells	monocrystalline 144(6x24)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	1500V DC
Max Series Fuse Rating	20A

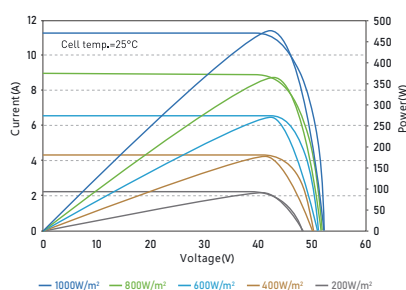
## Module Dimension



## Packing Configuration

Modules per pallet	31 pieces
Modules per 40' container	682 pieces

I-V/P-V Curve at Different Irradiation (465W)



I-V Curve at Different Temperature (465W)

