

## CST385~420M10-54H

### 108-CELL HALF CUT Monocrystalline Solar Module

182mm Mono PERC Solar Cells(Half)

## 420W

Maximum Power Output

## 21.5%

Maximum Efficiency

## 0~+5W

Positive Power Tolerance



#### MBB Cell

New circuit design, lower internal current, lower internal resistance loss.



#### Low hotspot risk

Special cutting and soldering technology leads to low hotspot risk.



#### Optimized system performance

Optimized system performance due to module level current sorting.



#### Withstanding harsh environment

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

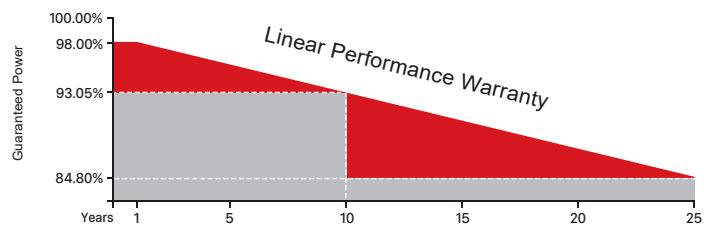


#### High PID resistant

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

#### 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



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

### Electrical Characteristics(STC)

PV module model	CST385M10-54H	CST390M10-54H	CST395M10-54H	CST400M10-54H	CST405M10-54H	CST410M10-54H	CST415M10-54H	CST420M10-54H
Maximum Power - Pmax(W)	385	390	395	400	405	410	415	420
Open Circuit Voltage - Voc(V)	36.30	36.50	36.60	36.80	36.90	37.10	37.20	37.40
Short Circuit Current - Isc(A)	13.24	13.33	13.42	13.52	13.61	13.70	13.80	13.89
Voltage at Pmax-Vmp(V)	30.60	30.70	30.90	31.00	31.20	31.30	31.50	31.60
Current at Pmax-Imp(A)	12.60	12.70	12.80	12.90	13.00	13.09	13.19	13.29
Module Efficiency-ηm(%)	19.7	20.0	20.2	20.5	20.7	21.0	21.3	21.5
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)	291.4	295.2	299.0	302.8	306.6	310.3	314.1	317.9
Open Circuit Voltage - Voc(V)	34.30	34.40	34.60	34.70	34.90	35.00	35.10	35.30
Short Circuit Current - Isc(A)	10.60	10.67	10.75	10.82	10.90	10.97	11.05	11.12
Voltage at Pmax-Vmp(V)	28.30	28.50	28.60	28.80	28.90	29.00	29.20	29.30
Current at Pmax-Imp(A)	10.28	10.36	10.44	10.52	10.60	10.68	10.76	10.84

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

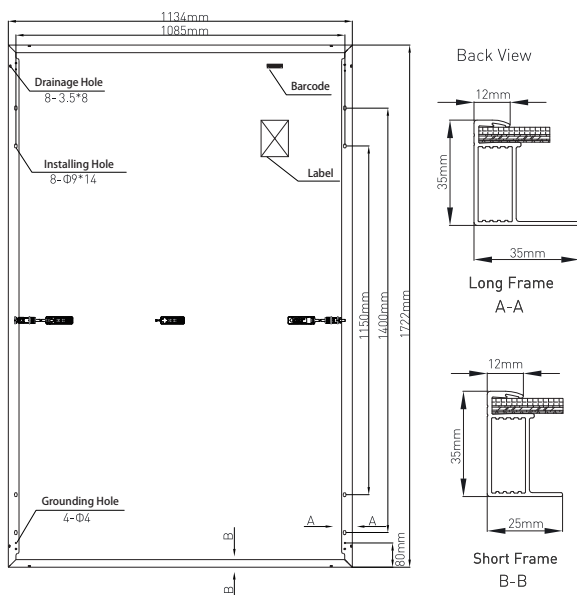
### Temperature Characteristics

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	1722x1134x35mm
Weight	21.3kg
Solar Cells	monocrystalline 108(6x18)pcs
Front Glass	High transparency solar glass 3.2mm
Frame	Silver/black, anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm <sup>2</sup> , cable lenght:300mm(+)/300mm(-)
Connector	MC4 Compatible
Wind/Snow Load	2400Pa/5400Pa
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A

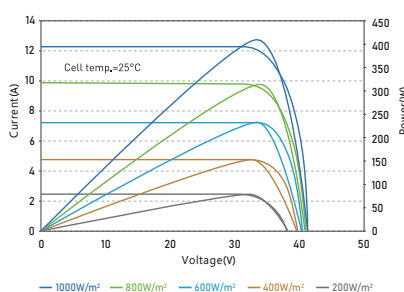
### Module Dimension



### Packing Configuration

Modules per pallet	31 pieces
Modules per 40' container	806 pieces

I-V/P-V Curve at Different Irradiation (405W)



I-V Curve at Different Temperature (405W)

