

# CST-M10/60H

# 455-465W PERC

120 HALF-CELL MONOFACIAL MODULE

## Characteristic



Better light trapping and current collection  
Improve module power output and reliability



**PID Resistance**  
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



**Optimized electrical design**  
lower operating current for reduced hot spot loss and better temperature coefficient.

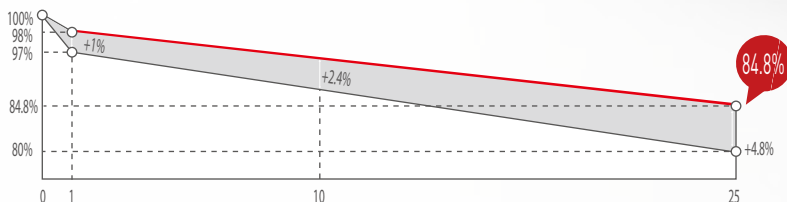


**Enhanced Mechanical Load**  
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

**21.7%**

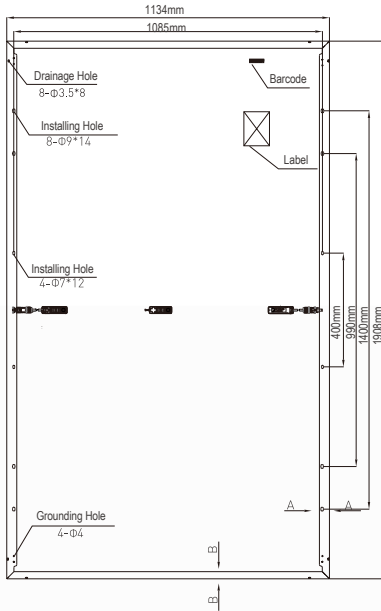
Max Module  
Efficiency

## Consort Linear Warranty

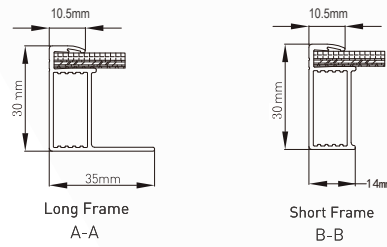


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

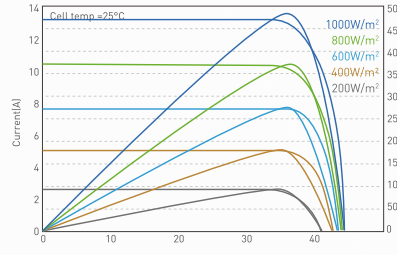
## ENGINEERING DRAWING (mm)



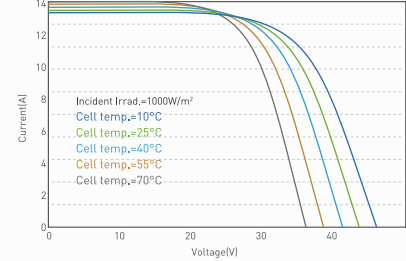
## FRAME CROSS SECTION (mm)



## I-V/P-V CURVE AT DIFFERENT IRRADIATION (465W)



## I-V CURVE AT DIFFERENT TEMPERATURE (465W)



## Electrical Characteristics (STC/NMOT)

PV module model	CST-M10/60H 450		CST-M10/60H 455		CST-M10/60H 460		CST-M10/60H 465		CST-M10/60H 470	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	450	340.6	455	344.4	460	348.2	465	352.0	470	355.7
Open Circuit Voltage - Voc(V)	41.03	38.74	41.18	38.90	41.33	39.00	41.48	39.16	41.63	39.30
Short Circuit Current - Isc(A)	13.61	10.90	13.69	10.97	13.78	11.03	13.86	11.10	13.95	11.17
Voltage at Pmax-Vmp(V)	34.62	32.11	34.77	32.25	34.92	32.39	35.07	32.53	35.22	32.67
Current at Pmax-Imp(A)	13.00	10.60	13.08	10.67	13.17	10.75	13.26	10.82	13.35	10.89
Module Efficiency-ηm(%)	20.7		21.0		21.2		21.5		21.7	
Power Output Tolerance(W)	0~+5									

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

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

## Mechanical Data

Number of Cells	182mm monocrystalline 120 pieces(60x2)
External Dimensions	1908x1134x30mm
Weight	22.8kg
Front glass	High transparency solar glass 3.2mm
Frame	Black/Silver, Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4.0mm <sup>2</sup> , 280 mm in length,length can be customized/UV resistant
Wind/Snow Load	2400Pa/5400Pa
Connector	MC4 compatible

## Temperature Characteristics

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

## Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A

Power measurement error + / - 3%

## Packaging Configuration

Module per box	36 pieces
Modules per 40' container	864 pieces

# PARAMETER