

# CST-M10/72H

# 545-555W PERC

144 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.

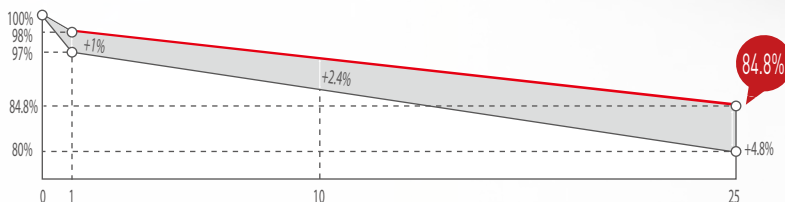


**Enhanced Mechanical Load**  
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

**21.7%**

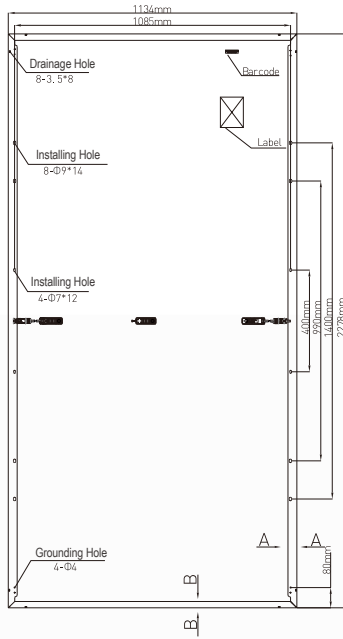
Max Module  
Efficiency

## Consort Linear Warranty

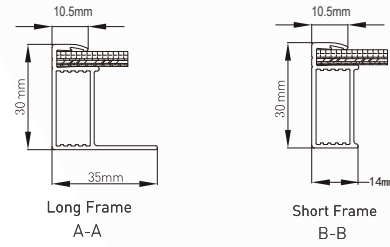


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

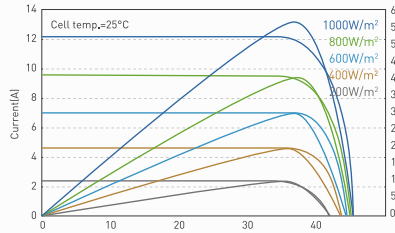
## ENGINEERING DRAWING (mm)



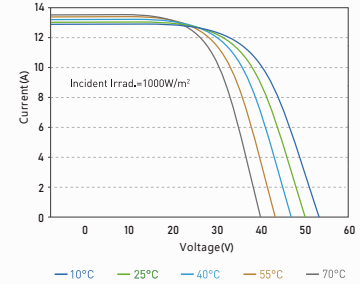
## FRAME CROSS SECTION (mm)



## I-V/P-V CURVE AT DIFFERENT IRRADIATION (555W)



## I-V CURVE AT DIFFERENT TEMPERATURE (555W)



## Electrical Characteristics (STC/NMOT)

PV module model	CST-M10/72H 540		CST-M10/72H 545		CST-M10/72H 550		CST-M10/72H 555		CST-M10/72H 560	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Front Side										
Maximum Power - Pmax(W)	540	408.6	545	412.4	550	416.2	555	420.0	560	423.8
Open Circuit Voltage - Voc(V)	49.75	46.96	49.98	47.18	50.22	47.40	50.45	47.62	50.68	47.85
Short Circuit Current - Isc(A)	13.63	10.92	13.66	10.94	13.70	10.97	13.73	10.99	13.76	11.02
Voltage at Pmax-Vmp(V)	42.06	39.01	42.35	39.28	42.64	39.55	42.93	39.82	43.22	40.09
Current at Pmax-Imp(A)	12.84	10.47	12.87	10.50	12.90	10.52	12.93	10.55	12.96	10.57
Module Efficiency-ηm(%)	20.9		21.1		21.3		21.5		21.7	
Power Output Tolerance(W)	0~+5									

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

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

## Mechanical Data

Number of Cells	182mm monocrystalline 144 pieces(72x2)
External Dimensions	2278x1134x30mm
Weight	28.3kg
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
Voc Temperature Coefficient	25A

Power measurement error + / - 3%

## Packaging Configuration

Module per box	36 pieces
Modules per 40' container	740 pieces

# PARAMETER