

# CST-M12/66H

# 655-665W PERC

132 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

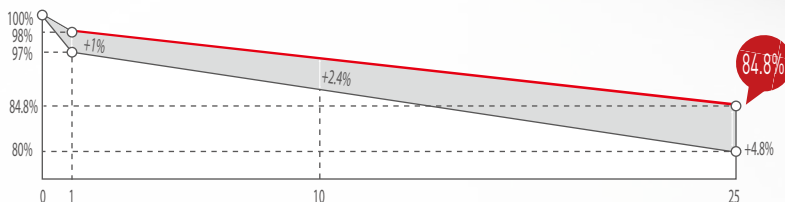


Enhanced Mechanical Load  
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)

**21.4%**

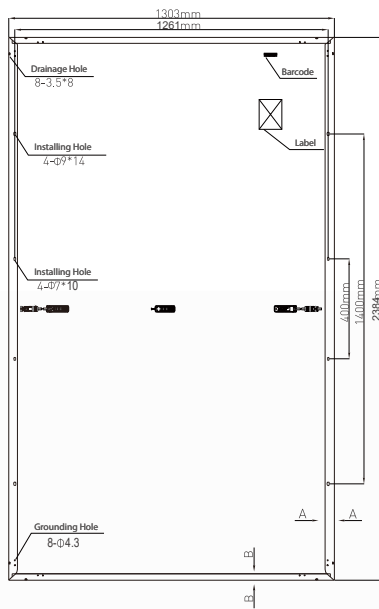
Max Module  
Efficiency

## Consort Linear Warranty

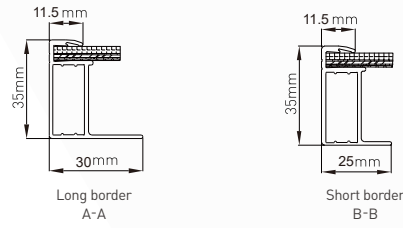


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

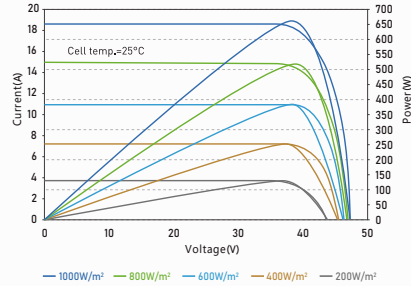
## ENGINEERING DRAWING (mm)



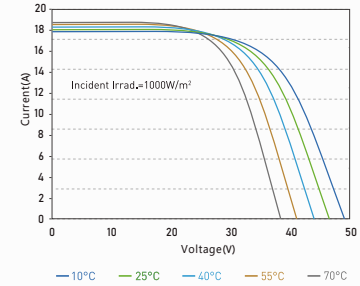
## FRAME CROSS SECTION (mm)



## I-V/P-V CURVE AT DIFFERENT IRRADIATION (665W)



## I-V CURVE AT DIFFERENT TEMPERATURE (665W)



## Electrical Characteristics (STC/NMOT)

PV module model	CST-M12/66H 645		CST-M12/66H 650		CST-M12/66H 655		CST-M12/66H 660		CST-M12/66H 665	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	645	488.0	650	491.8	655	495.6	660	499.4	665	503.1
Open Circuit Voltage - Voc(V)	45.00	42.39	45.20	42.58	45.40	42.77	45.60	42.96	45.80	43.14
Short Circuit Current - Isc(A)	18.41	14.84	18.46	14.88	18.50	14.92	18.55	14.96	18.60	15.00
Voltage at Pmax-Vmp(V)	37.20	34.70	37.40	34.89	37.60	35.08	37.80	35.26	38.00	35.45
Current at Pmax-Imp(A)	17.34	14.06	17.38	14.09	17.42	14.13	17.46	14.16	17.50	14.19
Module Efficiency-ηm(%)	20.8		20.9		21.1		21.2		21.4	
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	210mm monocrystalline 132 pieces (66x2)
External Dimensions	2384x1303x35mm
Weight	34.0kg
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	30A

Power measurement error + / - 3%

## Packaging Configuration

Module per box	31 pieces
Modules per 40' container	558 pieces

# PARAMETER