

CST-M12/60H

595-605W 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

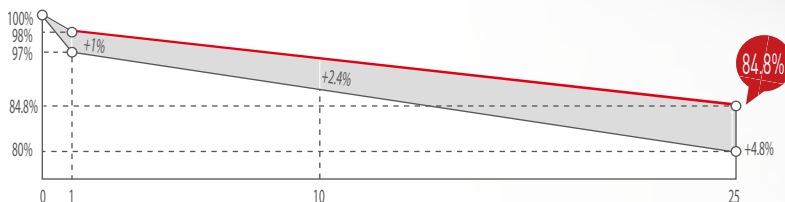


Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)

21.6%

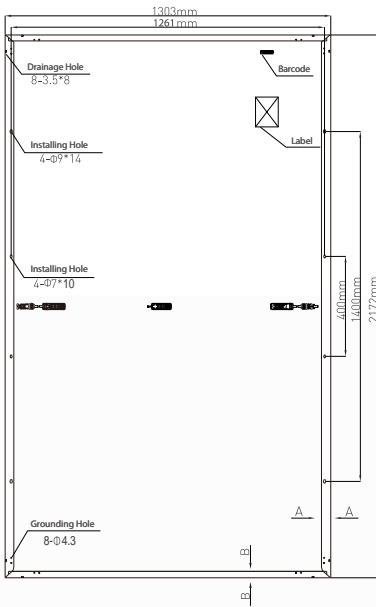
Max Module
Efficiency

Consort Linear Warranty

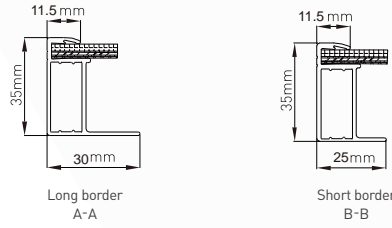


- 12 year Product Warranty
- 25 Year Linear Power Warranty
- 0.55% Annual Degradation Over 25 Years

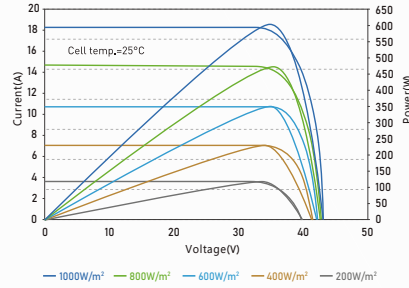
ENGINEERING DRAWING (mm)



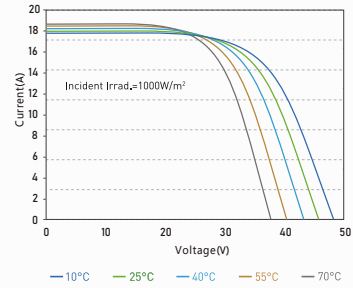
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (605W)



I-V CURVE AT DIFFERENT TEMPERATURE (605W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-M12/60H 590		CST-M12/60H 595		CST-M12/60H 600		CST-M12/60H 605		CST-M12/60H 610	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Front Side										
Maximum Power - Pmax(W)	590	446.4	595	450.2	600	454.0	605	457.7	610	461.5
Open Circuit Voltage - Voc(V)	41.05	38.67	41.25	38.86	41.45	39.05	41.65	39.24	41.85	39.43
Short Circuit Current - Isc(A)	18.45	14.87	18.50	14.92	18.55	14.96	18.61	15.00	18.66	15.04
Voltage at Pmax-Vmp(V)	33.96	31.69	34.16	31.88	34.36	32.06	34.56	32.25	34.76	32.43
Current at Pmax-Imp(A)	17.37	14.09	17.41	14.12	17.46	14.16	17.50	14.19	17.55	14.23
Module Efficiency-ηm(%)	20.8		21.0		21.2		21.4		21.6	
Power Output Tolerance(W)	0~+5									

STC: Irradiance 1000 W/m², Module Temperature 25°C, Air Mass AM1.5

NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Data

Number of Cells	210mm monocrystalline 120 pieces (60x2)
External Dimensions	2172x1303x35mm
Weight	30.9kg
Front glass	High transparency solar glass 3.2mm
Frame	Black/Silver, Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4.0mm ² , 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