

CST-M8/60GDF

375-385W PERC

120 HALF-CELL BIFACIAL SOLAR MODULE

Characteristic



More Power
Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time.



Additional power generation gain
Up to 25% additional power gain from back side depending on albedo



Non-destructive Cutting
Minimized micro-cracks with innovative non-destructive cutting technology

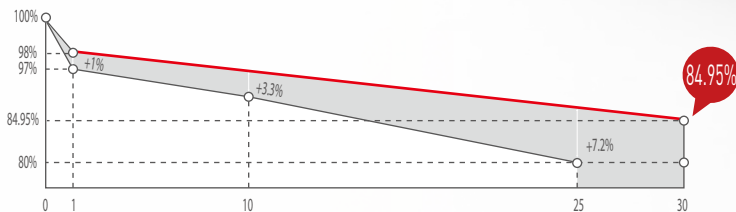


Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance

21.4%

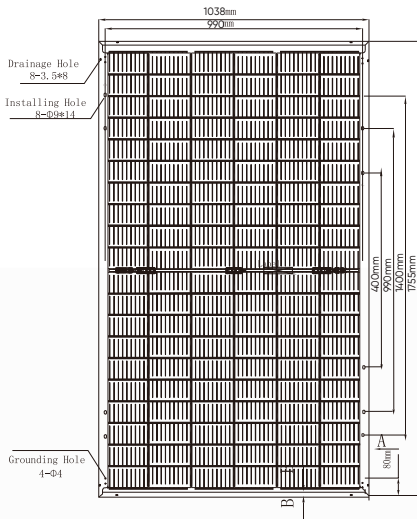
Max Module
Efficiency

Consort Linear Warranty

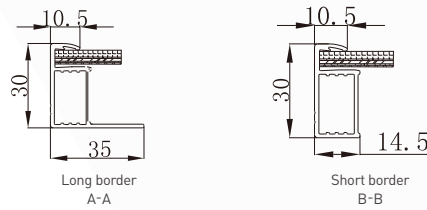


- 15 year Product Warranty
- 30 Year Linear Power Warranty
- 0.45% Annual Degradation Over 30 Years

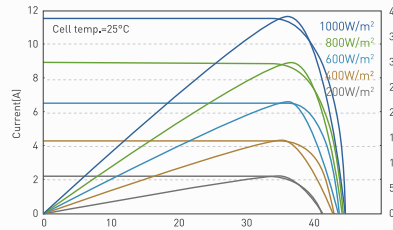
ENGINEERING DRAWING (mm)



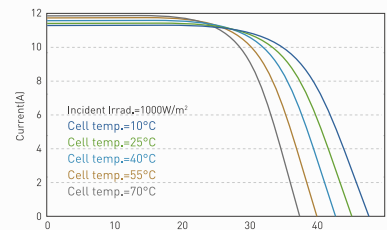
FRAME CROSS SECTION (mm)



I-V/P-V CURVE AT DIFFERENT IRRADIATION (380W)



I-V CURVE AT DIFFERENT TEMPERATURE (380W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-M8/60GDF 370		CST-M8/60GDF 375		CST-M8/60GDF 380		CST-M8/60GDF 385		CST-M8/60GDF 390	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	370	277.4	375	281.2	380	284.9	385	288.6	380	292.4
Open Circuit Voltage - Voc(V)	40.74	39.64	40.92	39.82	41.43	40.31	41.88	40.75	42.22	41.08
Short Circuit Current - Isc(A)	11.33	8.95	11.37	8.98	11.43	9.03	11.49	9.08	11.54	9.12
Voltage at Pmax-Vmp(V)	34.39	32.22	34.54	32.36	34.96	32.76	35.29	33.07	35.56	33.32
Current at Pmax-Imp(A)	10.76	8.61	10.86	8.69	10.87	8.70	10.91	8.73	10.97	8.78
Module Efficiency-ηm(%)	20.3		20.6		20.9		21.1		21.4	
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

Electrical Characteristics with different power bin (reference to 10% Irradiance ratio)

	407	413	418	424.0	429.0
Maximum Power - Pmax(W)	407	413	418	424.0	429.0
Open Circuit Voltage - Voc(V)	40.74	40.92	41.43	41.88	42.22
Short Circuit Current - Isc(A)	12.46	12.50	12.57	12.64	12.69
Voltage at Pmax-Vmp(V)	34.39	34.54	34.96	35.29	35.56
Current at Pmax-Imp(A)	11.83	11.94	11.96	12.00	12.06

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42±2°C
Isc Temperature Coefficient	+0.05%/°C
Voc Temperature Coefficient	-0.28%/°C
Pmax Temperature Coefficient	-0.35%/°C

Mechanical Data

Number of Cells	166mm monocrystalline 120 pieces (60x2)
External Dimensions	1755X1038X30mm
Weight	24kg
Front glass	High transparency solar glass 2.0mm
Back glass	High transparency solar glass 2.0mm
Frame	Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4.0mm ² , 230 mm in length, length can be customized/UV resistant
Number Of Diodes	3
Wind/Snow Load	2400Pa/5400Pa
Connector	MC compatible

Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	20A

Power measurement error + / - 3%

Packaging Configuration

Module per pallet	36 pieces
Modules per 40' container	936 pieces