

CST-M12/60GDF

595-605W PERC

120 HALF-CELL MONOFACIAL 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

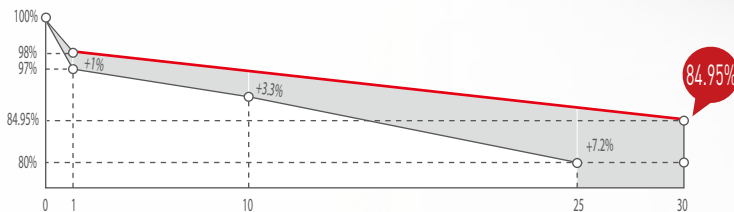


Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance

21.6%

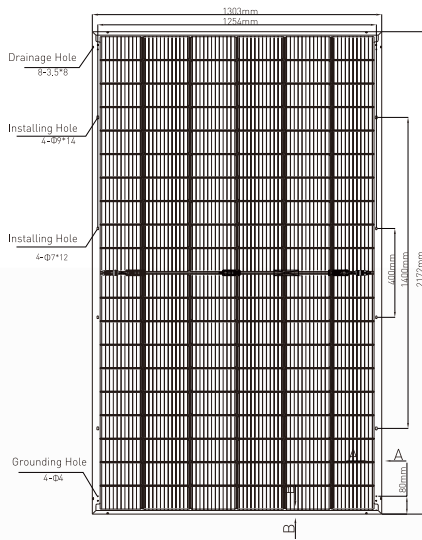
Max Module
Efficiency

Consort Linear Warranty

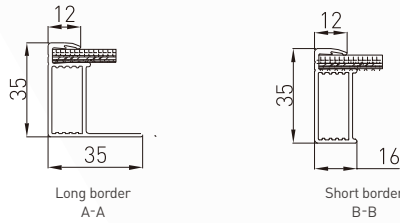


- 15 year Product Warranty
- 30 Year Linear Power Warranty
- 0.45% Annual Degradation Over 30 Years

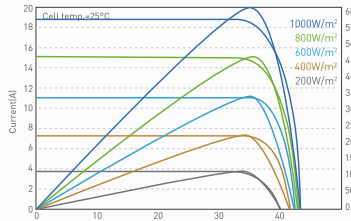
ENGINEERING DRAWING (mm)



FRAME CROSS SECTION (mm)

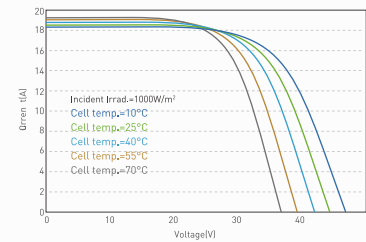


I-V/P-V CURVE AT DIFFERENT IRRADIATION (600W)



PARAMETER

I-V CURVE AT DIFFERENT TEMPERATURE (600W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-M12/60GDF 590		CST-M12/60GDF 595		CST-M12/60GDF 600		CST-M12/60GDF 605		CST-M12/60GDF 610	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	590	446.4	595	450.2	600	454.0	605	457.7	610	461.5
Open Circuit Voltage - Voc(V)	41.24	38.84	41.44	39.03	41.64	39.22	41.84	39.41	42.04	39.60
Short Circuit Current - Isc(A)	18.36	14.80	18.41	14.84	18.46	14.88	18.52	14.93	18.57	14.97
Voltage at Pmax-Vmp(V)	34.15	31.86	34.35	32.05	34.55	32.23	34.75	32.42	34.95	32.60
Current at Pmax-Imp(A)	17.28	14.01	17.32	14.05	17.37	14.09	17.41	14.12	17.46	14.16
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

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

	649	655	660	666	671
Maximum Power - Pmax(W)	649	655	660	666	671
Open Circuit Voltage - Voc(V)	41.24	41.44	41.64	41.84	42.04
Short Circuit Current - Isc(A)	20.19	20.25	20.30	20.37	20.42
Voltage at Pmax-Vmp(V)	34.15	34.35	34.55	34.75	34.95
Current at Pmax-Imp(A)	19.00	19.05	19.10	19.15	19.20

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	210mm monocrystalline 120 pieces (60x2)
External Dimensions	2172X1303X35mm
Weight	34.8kg
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 , 280 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	35A

Power measurement error + / - 3%

Packaging Configuration

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