CONSORT SOLAR

CST-NT10/66GDF

520-530W N-TOPCon

132 HALF-CELL BIFACIAL SOLAR MODULE

Characteristic

High temperature power generation performance
n-type modules have a relatively low temperature coefficient. In combination with the lower module operating temperature, the power generation gain of around 2%.

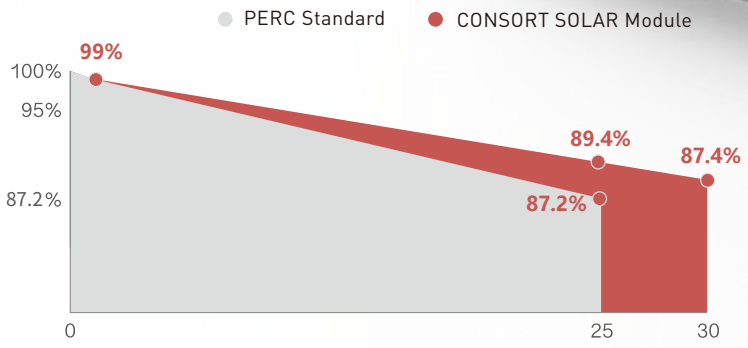
PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

Higher Power
Output Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

Excellent Reliability
15 Year Product Warranty ; 30 Year Linear Power Warranty ; 0.40% Annual Degradation Over 30 years.

22.3%
Max Module Efficiency

Consort Linear Warranty



- 15 year Product Warranty
- 30 Year Linear Power Warranty
- 0.4% Annual Degradation Over 30 Years

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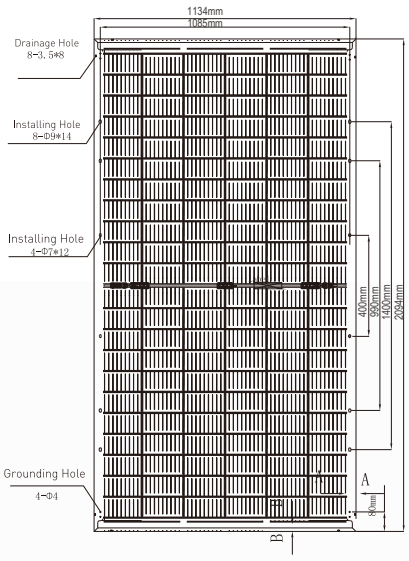
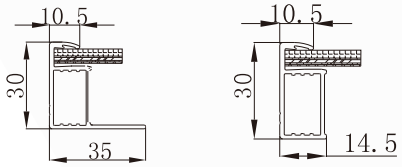
PARAMETER

ENGINEERING DRAWING (mm)



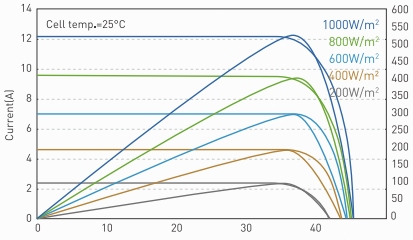
FRAME CROSS SECTION (mm)



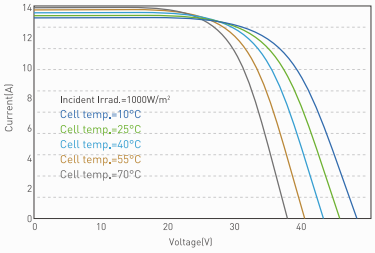
Long border
A-A

Short border
B-B

I-V/P-V CURVE AT DIFFERENT IRRADIATION (520W)



I-V CURVE AT DIFFERENT TEMPERATURE (520W)



Electrical Characteristics (STC/NMOT)

PV module model	CST-NT10/66GDF 510		CST-NT10/66GDF 515		CST-NT10/66GDF 520		CST-NT10/66GDF 525		CST-NT10/66GDF 530	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax(W)	510	383	515	387	520	391	480	394	530	398
Open Circuit Voltage - Voc(V)	46.98	44.62	47.04	44.68	47.19	44.83	47.34	44.97	47.49	45.11
Short Circuit Current - Isc(A)	13.71	11.08	13.77	11.13	13.84	11.18	13.90	11.24	13.99	11.31
Voltage at Pmax-Vmp(V)	39.24	36.87	39.47	37.09	39.65	37.26	39.84	37.43	39.96	37.55
Current at Pmax-Imp(A)	13.00	10.39	13.05	10.43	13.11	10.49	13.18	10.54	13.26	10.61
Module Efficiency-ηm(%)	21.5		21.7		21.9		22.1		22.3	
Power Output Tolerance(W)	0~+5									

STC: Irradiance 1000 W/m², Module Temperature25°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)

Maximum Power - Pmax(W)	561	567	572	578	583
Open Circuit Voltage - Voc(V)	46.98	47.04	47.19	47.34	47.49
Short Circuit Current - Isc(A)	15.08	15.14	15.22	15.29	15.39
Voltage at Pmax-Vmp(V)	39.24	39.47	39.65	39.84	39.96
Current at Pmax-Imp(A)	14.30	14.35	14.43	14.50	14.59

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45±2°C
Isc Temperature Coefficient	+0.045%°C
Voc Temperature Coefficient	-0.25%°C
Pmax Temperature Coefficient	-0.29%°C

Mechanical Data

Number of Cells	N-type Mono-crystalline132 pieces(66x2)
External Dimensions	2094X1134X30mm
Weight	30kg
Front glass	High transparency solar glass 2.0mm
Back glass	High transparency solar glass 2.0mm
Frame	Black/Silver,Anodized aluminum alloy
Junction Box	IP68 rated
Output Cables	4.0mm², 280 mm in length,length can be customized/UV resistant
Number Of Diodes	3
Wind/Snow Load	2400Pa/5400Pa
Connector	MC compatible
Bifaciality	80±5%

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 pallet	36 pieces
Modules per 40' container	792 pieces

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