

Solstice[®] Panel

HALF-CELL 450W SOLAR MODULE

High performance, half-cell N-Type mono-crystalline TOPCon 16BB 450W bifacial all-black modules produced using state of the art automated production lines and made using the highest quality materials and quality control standards.

HALF-CELL MONOCRYSTALLINE TYPE

• CTTC450HC12-08

FEATURES AND BENEFITS

High Quality / High Power

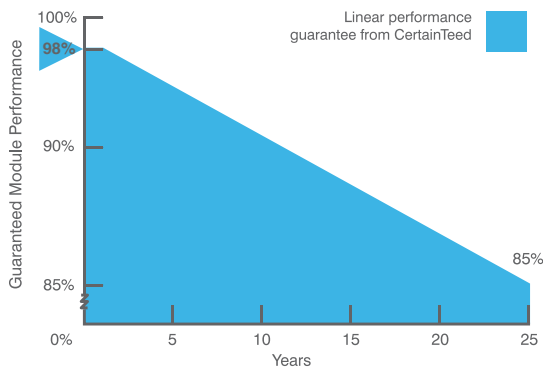
- 450W bifacial with transparent backsheets
- UL listed (61730-1, UL 61730-2)
- Positive power output tolerance

Limited Warranty*

- 25-year linear power output warranty

*See CertainTeed's limited warranty for details

POWER OUTPUT WARRANTY



OPERATING CONDITIONS

Dimensions	1724 x 1134 x 30 mm
Nominal Operating Cell Temperature	45 +/- 2° C
Operating Temperature	-40 to 85° C
Maximum System Voltage	1,500V
Fire Performance	Class C / Type 1
Maximum Wind Load	112 lbs/ft ² (5400 Pa)
Maximum Snow Load	112 lbs/ft ² (5400 Pa)

ELECTRICAL CHARACTERISTICS

Nominal Output (Pmpp)	W	450
Voltage at Pmax (Vmpp)	V	33.51
Current at Pmax (Impp)	A	13.44
Open Circuit Voltage (Voc)	V	38.84
Short Circuit Current (Isc)	A	14.47
Output Tolerance	W	0-+3%
No. of Cells & Connections		108 half-cells with 3 bypass diodes
Maximum Series Fuse Rating		30A
Cell Type		N-Type Monocrystalline TOPCon
Module Efficiency	%	23.02
Temperature Coefficient of Pmpp	%/C	-0.29
Temperature Coefficient of Voc	%/C	-0.25
Temperature Coefficient of Isc	%/C	+0.046
Bifaciality Ratio	%	80 +/- 5

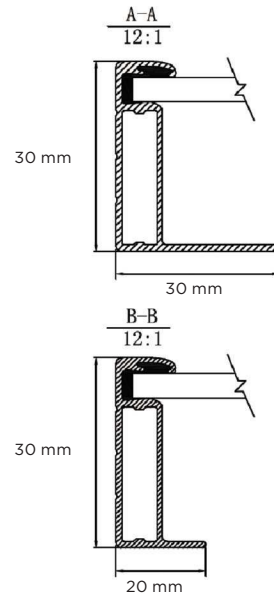
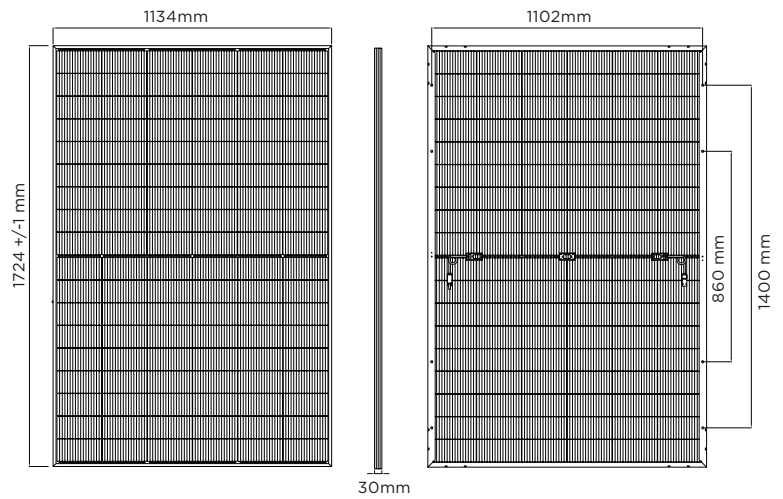
MECHANICAL CHARACTERISTICS

Glass	Glass: 3.2 high transmission, tempered, anti-reflective
Frame	Anodized aluminum (Black)
Junction Box	IP68
Output Cables	4 mm ² (12AWG) PV Wire, Length 1.2m (47.2")
Connectors	Staubli MC4
Weight	46 +/- 2lbs (21 +/-1 kg)

PACKAGING

Panels Per Pallet	37
Panels Per Container	962

DIMENSIONS



CertainTeed

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