

N - TOPCON Glass to Glass
Bifacial - 16BB

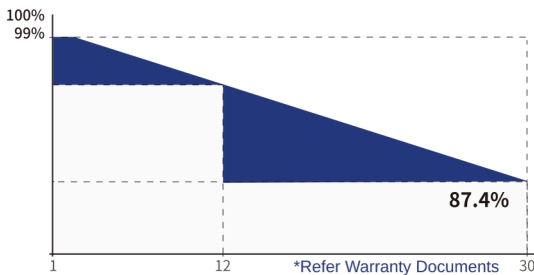
600+W

Efficiency up to
25.25%

0~+4.99W

Power Tolerance

AELIUSTL144XXX (XXX=585-605)



12Year
Product Warranty

30Year
Linear Power
Warranty

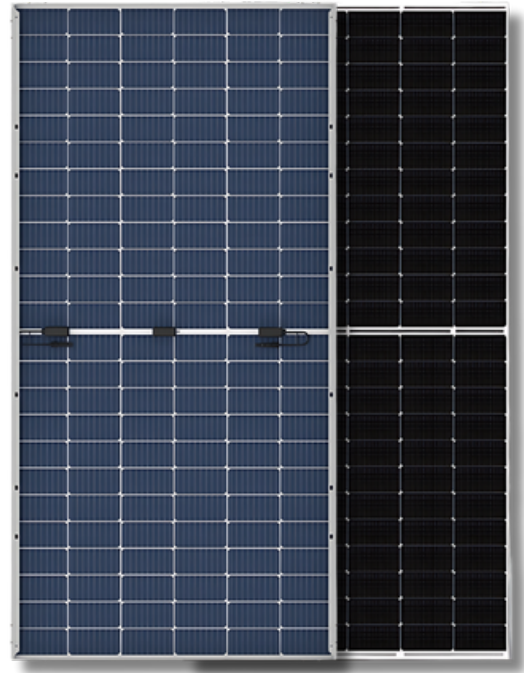
1%
First-year
Degradation

0.40%
Annual Degradation
of 2-30 Years

Approvals and Certificates

- BIS Certified
- IS 14286 : 2023
- IEC 61730 -1 : 2016
- IEC 61730 -2 : 2016

*All certification are under process



Half Cut Cell Design with
Multi Bus Bar Technology



High Power Generation



Excellent Weak Light
Performance



Lower LCOE & BOS



Low LID



Bifaciality Factor
of 80 ± 5%



Enhanced Mechanical
Load Capacity



Better Temperature Co-efficient



PID Free Guarantee



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ELECTRICAL PARAMETERS (STC*):

Model	Voc (v)	Vmp (v)	Imp (A)	Isc (A)	Pmax (W)	Eff (%)
AELIUSTL605	52.013	45.511	13.319	13.759	605.00	25.5
AELIUSTL600	51.761	45.331	13.267	13.736	595.00	25.1
AELIUSTL595	51.588	45.058	13.242	13.718	585.00	24.7
AELIUSTL590	51.458	44.813	13.208	13.675	575.00	24.2
AELIUSTL585	51.149	44.460	13.153	13.636	560.00	23.6

*STC (standard Test Conditions): Irradiance 1000W/m², Temperature 25°C, Spectrum at AM 1.5G.

ELECTRICAL PARAMETERS (NMOT*):

Model	Voc (v)	Vmp (v)	Imp (A)	Isc (A)	Pmax (W)	Eff (%)
AELIUSTL585	46.61	38.50	10.92	11.53	420.00	20.70
AELIUSTL590	46.70	38.55	11.00	11.61	424.00	20.50
AELIUSTL595	46.75	38.60	11.08	11.65	427.00	20.70
AELIUSTL600	46.79	38.65	11.16	11.73	431.00	20.90
AELIUSTL605	46.84	38.69	11.24	11.81	435.00	21.05

*NMOT (Nominal Module Operating Temperature): Irradiance 800Wm², Ambient temperature 20°C, Spectrum at AM 1.5G, Wind speed at 1m/s. (NMOT)

STC with 10% gain from Rear side:

Model	Voc (v)	Vmp (v)	Imp (A)	Isc (A)	Pmax (W)	Eff (%)
AELIUSTL585	51.25	42.75	14.96	15.79	638.00	24.70
AELIUSTL590	51.35	42.75	15.07	15.90	644.00	24.95
AELIUSTL595	51.40	42.80	15.18	15.95	649.00	25.10
AELIUSTL600	51.45	42.85	15.29	16.06	655.00	25.40
AELIUSTL605	51.50	42.90	15.40	16.17	660.00	25.50

Design Specification:

Cell Type	183.75mm × 182.2mm - 16BB TOPCON Bi-Facial
Cell Configuration	144 (12 × 6 × 2) Half Cut Cells
Operating Temperature	-40°C to +85°C
Max. System Voltage	1500V DC
Max. Series Fuse Rating	30A
Application Class	A
Safety Class	C
Junction Box Type	Split JB IP68
Output Cable Length	300mm (1400 mm upon request)

Dimensional & Packing Details:

Dimensions	2278 × 1134 × 35mm (Glass to Glass with Frame)
Weight	33.75 Kg
Modules/ Pallet	28 Nos
22Ft Truck	224 Nos
40Ft HQ Container	616 Nos

Temperature Coefficients:

Power (Pmax)	-0.32%/°C
Voltage (Voc)	-0.25%/°C
Current (Isc)	-0.045%/°C
NMOT/ NOCT	44±2°C

Mechanical Load Test :

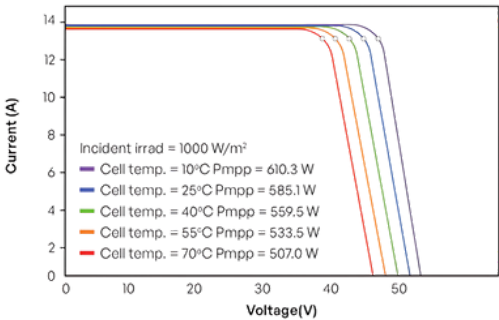
Pa-Front	5400
Pa-Front	2400

The technical data and specifications are mentioned in the data sheet may changed without prior notice due to continuous improvements and innovation in the product. Please contact marketing for the latest updates and data sheet before finalizing the order. Please be advised that solar PV module should be handled and installed by qualified personnel and please Refer Installation, Operation & Maintenance Manual before handling and start installation for safety & installation

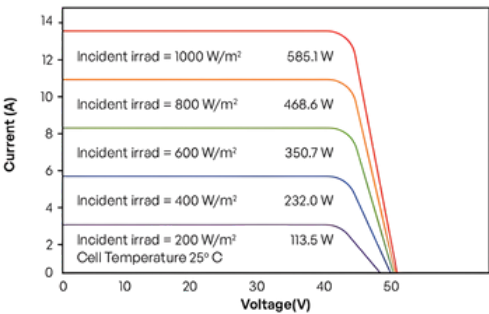
Reference IV Curve Detail:

IV Curve for Front-Side Illumination of 600Wp Panel

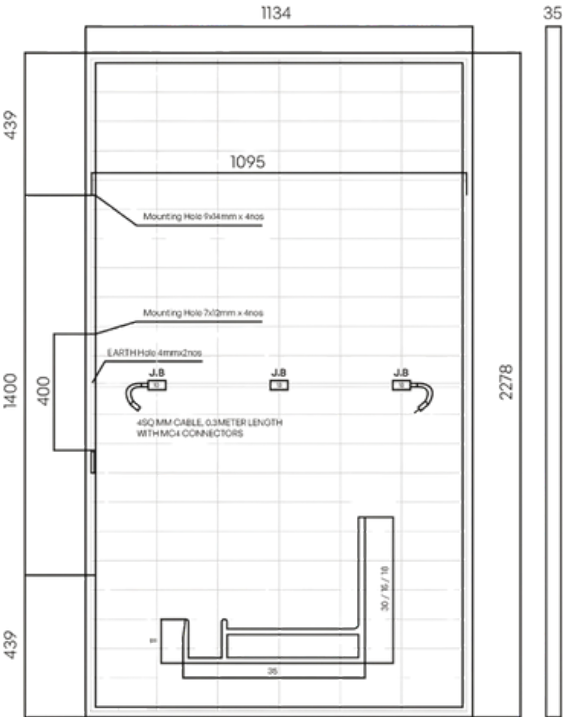
I-V Curves Variation with Irradiance



IV Curve Variation with Temperature



Rare View & Mounting Detail:



All Dimensions are in mm; Tolerance: ±2mm

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