

AVN72M10TB | N-type Bifacial - Transparent Backsheet | 144 Cells | 585 Watt | > 22.60% Efficiency



"N" TOPCON TECHNOLOGY

565 - 585 WATT



Up to 30% Additional Power Generation Gain

Additional power gain from rear side depending on albedo



LOW LID (Light Induced Degradation)

TOPCon cells have low LID, because of its N-Type silicon substrate



Lower LCOE

High bifaciality, high power output, saving BOS cost



Better Weak Illumination Response

Wide spectral response, higher power output even under low-light settings like smog or cloudy days



Better Temperature Coefficient

TOPCon cell has a better temperature coefficient which help in better performance in hot climate



Wider Applicability

Vertical installation, snowfield, high-humid area

585 W
MAXIMUM
POWER OUTPUT

0~+5 W
POWER OUTPUT
TOLERANCE

16 BB
MULTI
BUSBAR

Key Features

- Fully automatic facility with cutting-edge technology
- Guaranteed positive tolerance to ensure power output reliability
- Split junction boxes reduce module temperature resulting increased module reliability

Quality & Reliability

- IP68 rated junction box for long-term weather endurance
- Made with high-graded raw material to achieve Quality, Durability, Efficiency, and through output
- 12 Years Workmanship & 30 Years Linear Performance Warranty

Disclaimer: As part of continuous innovation and R&D improvements, the specifications and key features outlined in this datasheet may be subject to minor changes and are not guaranteed. Avaada Electro Pvt. Ltd. reserves the right to update the information provided at any time without prior notice. To ensure accuracy, please always refer to the latest version of the datasheet, which will be considered a part of the binding contract governing all transactions related to the purchase and sale of the products described herein.

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Electrical Parameter at STC

Module Type	AVN72M10TB				
Capacity rating - Pmax (Wp*)	565	570	575	580	585
Rated voltage - Vmp(V)	42.98	43.28	43.57	43.86	44.16
Rated current - Imp(A)	13.145	13.171	13.196	13.222	13.247
Open circuit voltage - Voc(V)	50.24	50.46	50.69	50.91	51.13
Short circuit current - Isc(A)	13.952	14.005	14.058	14.111	14.164
Module efficiency (%)	21.9%	22.1%	22.3%	22.5%	22.6%

*STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

Electrical Parameter at NOCT

Capacity rating - Pmax (Wp*)	427	431	435	439	443
Rated voltage - Vmp(V)	40.33	40.61	40.88	41.16	41.43
Rated current - Imp(A)	10.598	10.619	10.640	10.660	10.681
Open circuit voltage - Voc(V)	48.02	48.23	48.45	48.66	48.87
Short circuit current - Isc(A)	11.249	11.291	11.334	11.377	11.420

*NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s. *Power Bifaciality: 80±5%

Mechanical Specification

Specification	Details
Solar cells	N type TOPCon, MBB 144 Cell
Encapsulation	POE/EPE/EVA
Substrate	Transparent Patterned Backsheet
Front glass	High Transmission ARC glass 3.2 mm
Frame	Anodized Aluminum Alloy
Dimensions	(L) 2278 mm x (W) 1134 mm x (H) 35mm
Weight	28 kg
J-box	IP 68 certified, 3 diodes
Cable	Solar cable 4 mm ² , length 300 mm / customized
Connectors	MC4-compatible connectors

Operating Properties

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
Power Tolerance	0 ~ +5 W
Bifaciality factor (As per Lab)	80± 5%

Temperature Coefficient

NOCT(Nominal Operating Cell Temperature)	45°C (±2°C)
Temperature Coefficient of Pmax	- 0.30%/°C
Temperature Coefficient of Voc	- 0.25%/°C
Temperature Coefficient of Isc	0.04%/°C

Certificates†

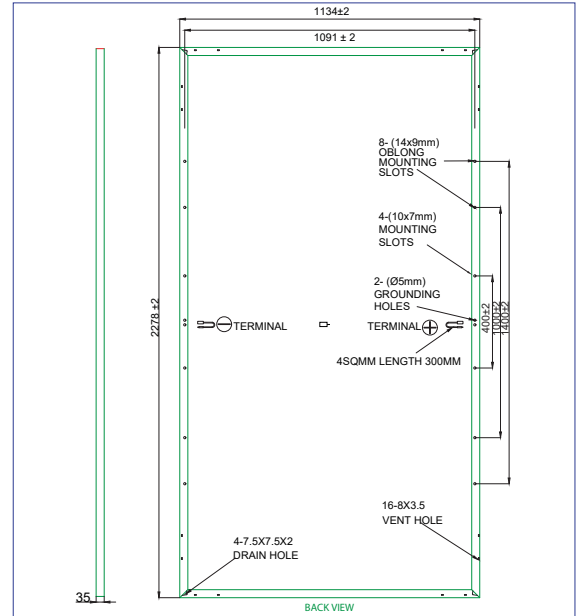
BIS | IEC 61730 | IEC 61215 | UL 61730 | IEC 62804(PID) | IEC 61701 (Salt Mist) | IEC 61716(Ammonia) | IEC 62782 | LID, LeTID | IEC 60068(Sand & Dust) | CEC | CE

† Few Certifications in process

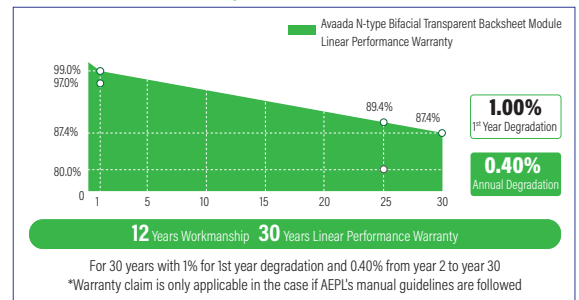
Packing Configuration

Container	40'HQ
Modules per Pallet	31
Pallets per Container	20
Modules per Container	620

Dimensions in mm



Performance Warranty



IV-Curve

