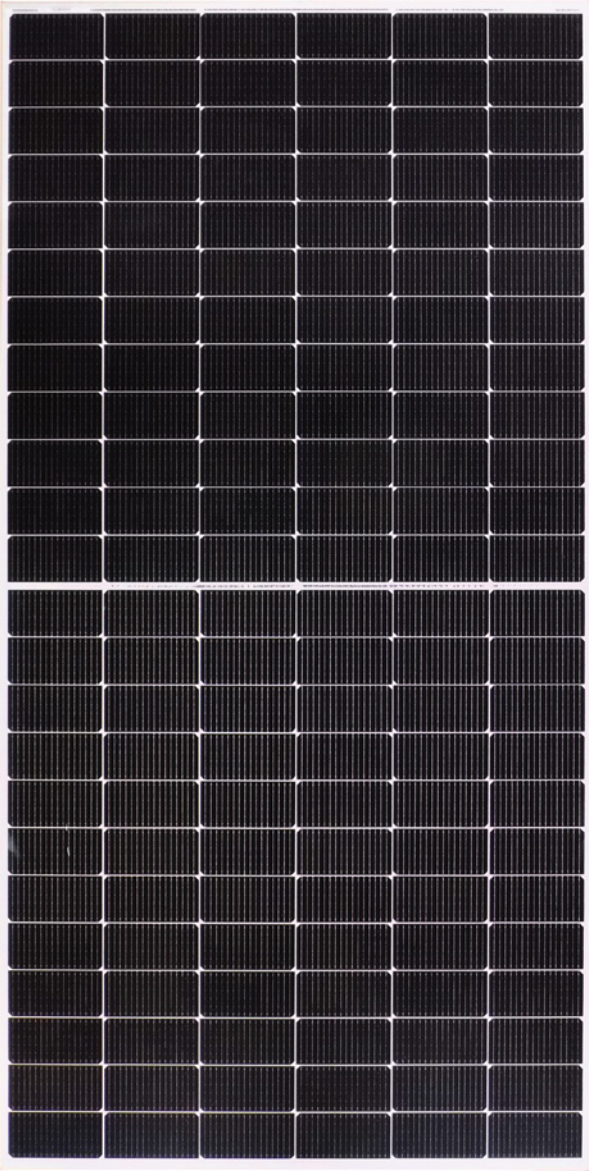
INTEGLOW

"N" TOPCon Technology | M10L - G2TB

AVAADA

AVN72M10LTB | N-type Bifacial - Transparent Backsheet | 144 Cells | 610 Watt | > 23.60% Efficiency



"N" TOPCON TECHNOLOGY

585 - 610 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

610 W	0~+5 W	16 BB
MAXIMUM POWER OUTPUT	POWER OUTPUT TOLERANCE	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

TECHNICAL DATA

INTEGLOW

AVAADA

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Electrical Parameter at STC

Module Type	AVN72M10LTB					
Capacity rating – Pmax (Wp*)	585	590	595	600	605	610
Rated voltage - Vmp(V)	44.16	44.46	44.76	45.06	45.36	45.56
Rated current - Imp(A)	13.247	13.272	13.290	13.312	13.33	13.4
Open circuit voltage - Voc(V)	51.13	51.35	51.57	51.79	52	52.23
Short circuit current - Isc(A)	14.164	14.210	14.261	14.300	14.34	14.38
Module efficiency (%)	22.6%	22.8%	23.0%	23.2%	23.4%	23.6%

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

Electrical Parameter at NOCT

Capacity rating – Pmax (Wp*)	443	447	451	455	459	463
Rated voltage - Vmp(V)	41.43	41.70	41.97	42.24	42.51	42.78
Rated current - Imp(A)	10.681	10.700	10.722	10.741	10.76	10.78
Open circuit voltage - Voc(V)	48.87	49.08	49.29	49.50	49.71	49.92
Short circuit current - Isc(A)	11.420	11.471	11.520	11.572	11.621	11.672

**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	32 kg
J-box	IP 68 certified, 3 diodes
Cable	Solar cable 4 mm² , 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†

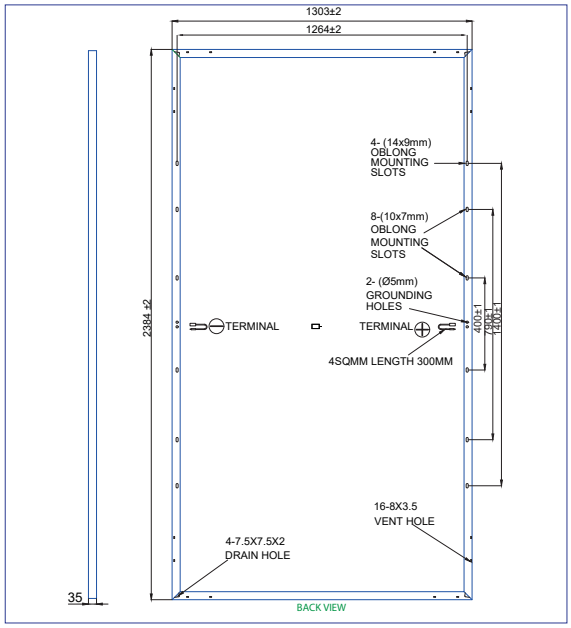
BIS | IEC 61730 | IEC 61215 | UL 61730 | IEC 62804(PID) | IEC 61701 (Salt Mist) | IEC 61716(Ammonia) IEC 62782 | LID, LeTID | IEC 60068(Sand & Dust) | CEC | CE

† Few Certifications in process

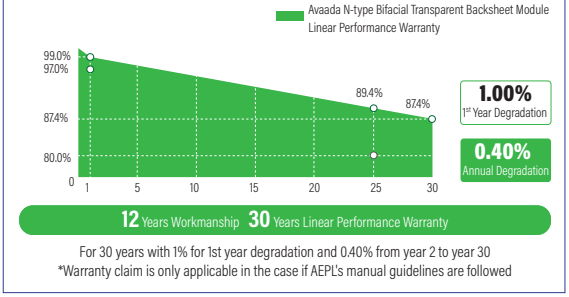
Packing Configuration

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

Dimensions in mm



Performance Warranty



For 30 years with 1% for 1st year degradation and 0.40% from year 2 to year 30
*Warranty claim is only applicable in the case if AEPL's manual guidelines are followed

IV-Curve