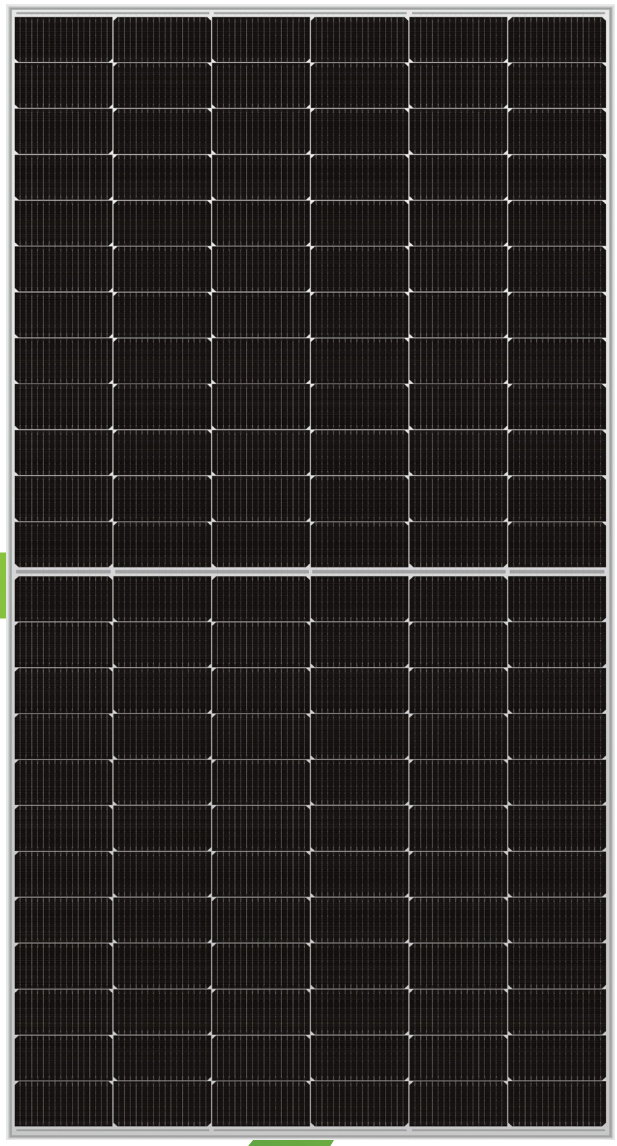
INTEGLOW

"N" TOPCON TECHNOLOGY

AVAADA

AVN66G12G | N-type Bifacial Double Glass Topcon Module | 132 Cells | 725 Watt | Upto 23.3% Efficiency



"N" TOPCON TECHNOLOGY

Up to 30% Additional Power Generation Gain
Additional power gain from rear side depending on albedo

ZERO LID (Light Induced Degradation)
N-type solar cell has no LID naturally, can increase power generation

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
Higher power generation under working conditions, thanks to passivating contact cell technology

Wider Applicability
BIPV, vertical installation, snowfield, high-humid area, windy and dusty area

725 W	0~+5 W	23.30%
MAXIMUM POWER OUTPUT	POWER OUTPUT TOLERANCE	MAXIMUM EFFICIENCY

Key Features

- Excellent module conversion efficiency of up to 23.30%
- Guaranteed positive tolerance to ensure power output reliability
- More power output in weak light condition, such as haze, cloudy, and morning
- 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
- 30 years output warranty

TECHNICAL DATA

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Electrical Parameter at STC

Module Type	AVN66G12G **				
Capacity rating – Pmax (Wp**)	705	710	715	720	725
Rated voltage - Vmp(V)	40.27	40.42	40.57	40.72	40.87
Rated current - Imp(A)	17.50	17.56	17.62	17.68	17.74
Open circuit voltage - Voc(V)	47.33	47.51	47.69	47.86	48.04
Short circuit current - Isc(A)	18.39	18.45	18.50	18.55	18.61
Module efficiency (%)	22.6%	22.8%	23.0%	23.1%	23.3%

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

Electrical Parameter at NOCT

Capacity rating – Pmax (Wp**)	533	537	540	545	548
Rated voltage - Vmp(V)	37.79	37.93	38.07	38.20	38.34
Rated current - Imp(A)	14.11	14.16	14.21	14.26	14.31
Open circuit voltage - Voc(V)	45.24	45.41	45.58	45.75	45.92
Short circuit current - Isc(A)	14.83	14.87	14.92	14.96	15.00

**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 132 Cell
Encapsulation	POE/EPE/EVA
Back glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Front glass	2.0mm, Anti-Reflection Coated
Dimensions	(L) 2390 mm x (W) 1303 mm x (H) 35mm
Weight	38 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 Tolerence	0 ~ +5 W
Bifaciality factor	80± 5%

Temperature Coefficient

NOCT(Nominal Operating Cell Temperature)	42°C (±2°C)
Temperature Coefficient of Pmax	- 0.30%/°C
Temperature Coefficient of Voc	- 0.25%/°C
Temperature Coefficient of Isc	0.04%/°C

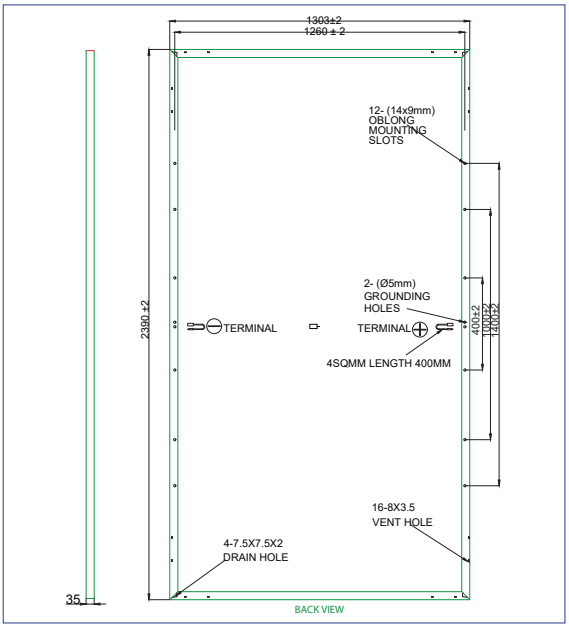
Certificates

BIS | IEC 61730 | IEC 61215 | UL 61730 | IEC 62804(PID) | IEC 61701 (Salt Mist) | IEC 61716(Ammonia)
IEC 62782 | IEC 61583-1&2 (PAN file) | LID,LeTID | IEC 60068(Sand & Dust) | CEC | CE

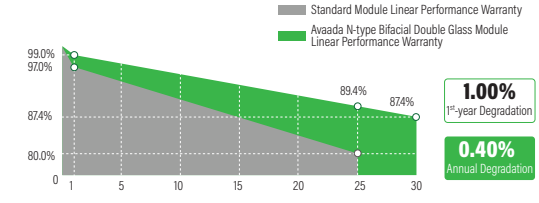
Packing Configuration

Container	40'HQ
Modules per Pallet	31
Pallets per Container	18
Modules per Container	558

Dimensions in mm



Performance Warranty



12 Years Product Material & Workmanship **30** Years Linear 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, which to followed all AEPL's manual guidelines

IV-Curve