AVIA SOLAR



30 - YEARS
LINEAR POWER WARRANTY

20 - YEARS
WARRANTY

PHOTOVOLTAIC MODULE

AVIA Solar 108N-BHC-450 bifacial module



- Tempered glass with anti-reflective coating, low emision of Fe
- Monocrystalline technology, half-cat, double glass, TOPCon
- Guaranteed positive power tolerance
- High Fill Factor (FF)
- Increased PID resistance PID (Potential Induced Degradation)
- Electroluminescence tests
- Highest quality of component materials, 1st grade cells class A
- Conformity to standards: IEC 61215, IEC 61730

Technical Specification

AVIA SOLAR

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power(Pmax)	340W
Open Circuit Voltage(Voc)	37.3V
Short Circuit Current(Isc)	11.59A
Maximum Power Voltage(Vmp)	31.1V
Maximum Power Current(Imp)	10.94A

* NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

TEMPERATURE PARAMETERS

Nominal Module Operating Temperature(NMOT)	43±2°C
Temperature Coefficient of Pmax γ (Pm)	-0.30%/°C
Temperature Coefficient of Voc β (Voc)	-0.25%/°C
Temperature Coefficient of Isc α (Isc)	0.045%/°C

MECHANICAL PARAMETERS

Solar Cells	Monocrystalline 182× 91mm
No. of Cells	108 (6×18)
Dimensions	1762mm×1134mm×30mm
Weight	24 (±0.5) kg
Glass Front /Back	High light transmittance coated tempered glass
Frame	Anodized aluminum alloy, silver
Junction Box	IP68
Cable	4mm² (IEC) length: (+) 1200 [mm], (-) 1200 [mm]
Connectors	MC4/MC4 Compatible
Maximum wind load	2400 [Pa]
Maximum snow load	5400 [Pa]

PACKING

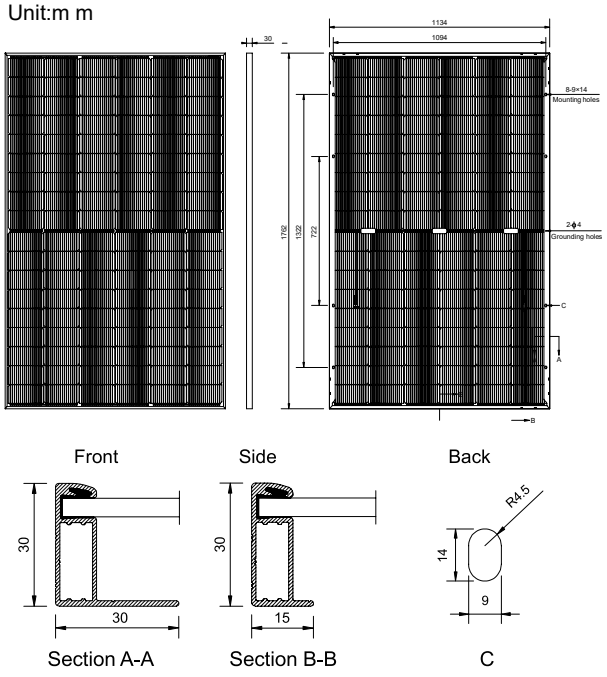
Packaging Configuration	36 pcs./pallet
	936 pcs./ 40' HQ container

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power(Pmax)	450W
Open Circuit Voltage(Voc)	39.2V
Short Circuit Current(Isc)	14.30A
Maximum Power Voltage(Vmp)	33.0V
Maximum Power Current(Imp)	13.64A
Module Efficiency	23.04%
Power Tolerance	0 ±3%
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	30A
Operating Temperature	-40°C to +85°C

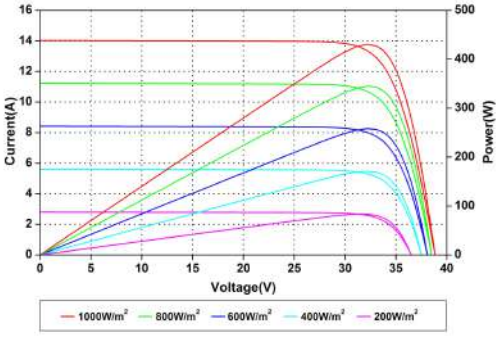
* STC: AM 1.5, Irradiance 1000W/m², module temperature 25°C

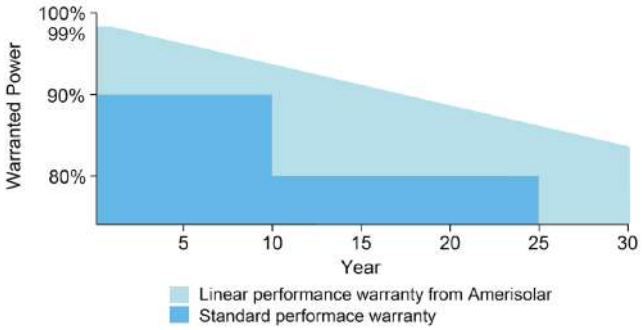
Unit:m m



Specifications in this datasheet are subject to change without prior notice.

Electrical characteristics





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