

AVIA SOLAR



30-YEARS

LINEAR POWER
WARRANTY



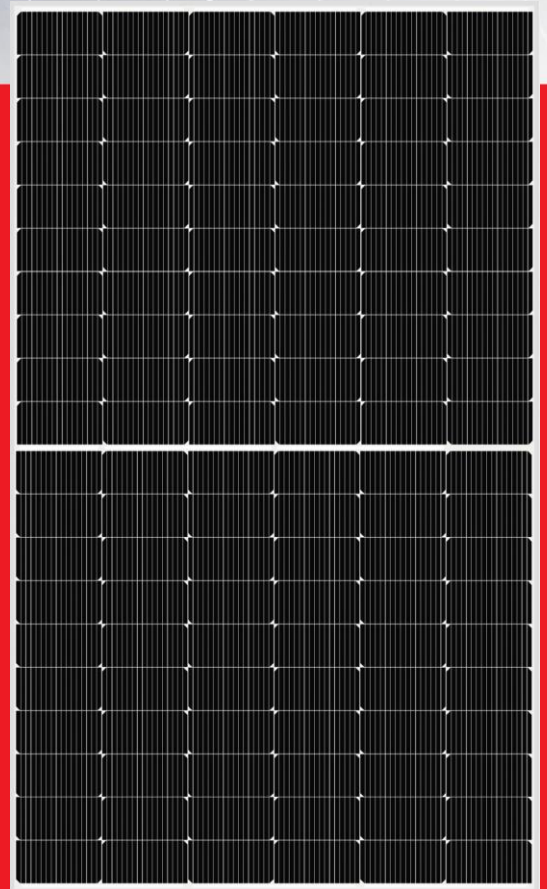
25-YEARS

WARRANTY

PHOTOVOLTAIC MODULE

AVIA Solar 72-18X(ND)-F-580 bifacial

- Tempered glass with anti-reflective coating, low emission of Fe
- Monocrystalline technology, half-cut, 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)	438W
Open Circuit Voltage(Voc)	49.11V
Short Circuit Current(Isc)	11.36A
Maximum Power Voltage(Vmp)	41.24V
Maximum Power Current(Impp)	10.63A

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

TEMPERATURE PARAMETERS

Nominal Module Operating Temperature(NMOT)	42±2 °C
Temperature Coefficient of Pmax γ (Pm)	-0.29%/°C
Temperature Coefficient of Voc β (Voc)	-0.24%/°C
Temperature Coefficient of Isc α (Isc)	0.04%/°C

MECHANICAL PARAMETERS

Solar Cells	Monocrystalline N-type
No. of Cells	144 [2x(6x12)]
Dimensions	2278mm×1134mm×30mm
Weight	31.2 (±0.5) kg
Glass Front /Back	(3.2mm) Tempered glass with AR coating
Frame	Anodized aluminum alloy, silver
Junction Box	IP68
Cable	4mm ² (IEC) length: (+) 1200 [mm], (-) 1200 [mm]
Connectors	MC4/MC4 Compatible
Maximum wind load	3600 [Pa]
Maximum snow load	5400 [Pa]

PACKING

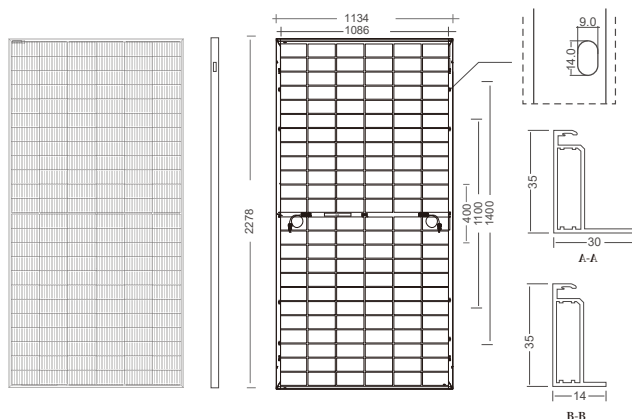
Packaging Configuration	36 pcs./pallet
	720 pcs./ 40' HQ container

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power(Pmax)	580W
Open Circuit Voltage(Voc)	51.7V
Short Circuit Current(Isc)	14.20A
Maximum Power Voltage(Vmp)	43.64V
Maximum Power Current(Impp)	13.29A
Module Efficiency	22.5%
Power Tolerance	0~+5W
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A
Operating Temperature	-40 °C to +85 °C

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

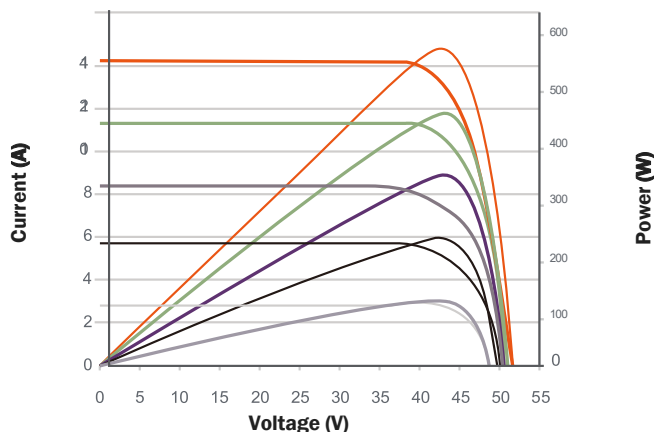
Unit: mm



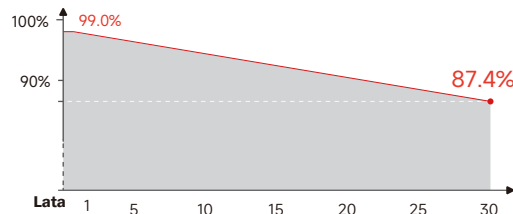
Rear View

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

Electrical characteristics



Linear power warranty



25- year product warranty*

30-year power output warranty*

* specific information is referred to the product quality warranty



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