

AVIA SOLAR



30 - YEARS

LINEAR POWER
WARRANTY



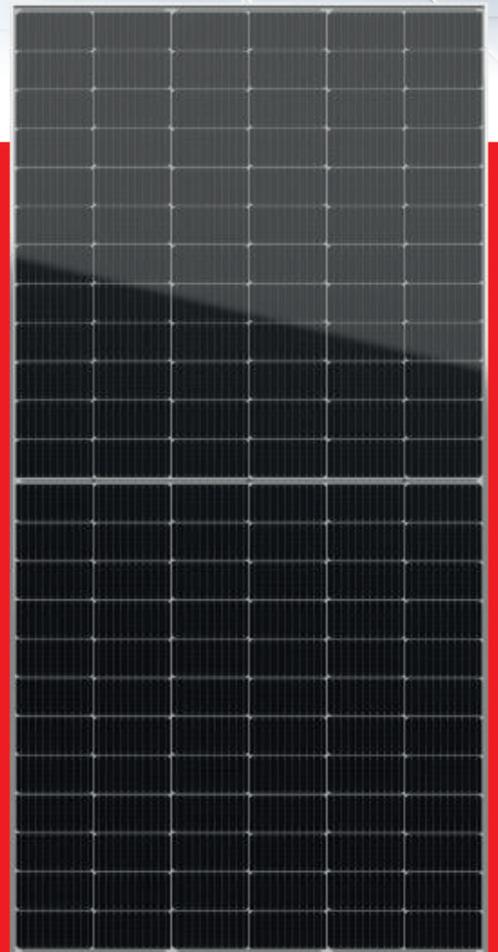
25 - YEARS

WARRANTY

PHOTOVOLTAIC MODULE

AVIA Solar 78-18X(ND)-F-630
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



ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power(Pmax)	476W
Open Circuit Voltage(Voc)	47.00V
Short Circuit Current(Isc)	13.08A
Maximum Power Voltage(Vmp)	38.63V
Maximum Power Current(Imp)	12.32A

* 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)	-0.24%/°C
Temperature Coefficient of Voc β (Voc)	-0.29%/°C
Temperature Coefficient of Isc α (Isc)	0.04%/°C

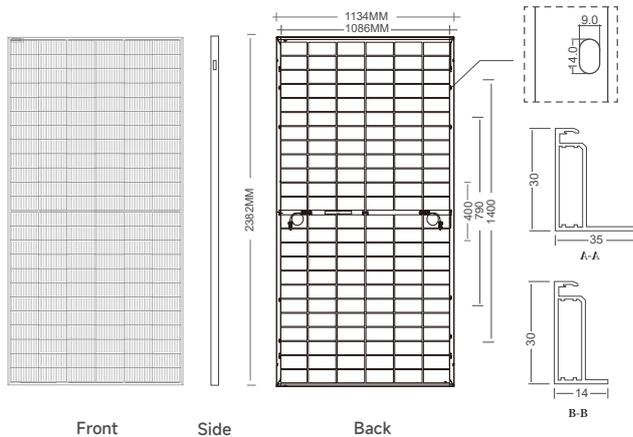
MECHANICAL PARAMETERS

Solar Cells	Monocrystalline
No. of Cells	144 [2x (6×11)]
Dimensions	2382mm×1134mm×30mm
Weight	33.6 (±0.5) kg
Glass Front /Back	High light transmittance coated tempered glass
Frame	Anodized aluminum alloy, silver
Junction Box	IP68
Cable	4mm ² (IEC) length: (+) 200 [mm], (-) 300 [mm]
Connectors	MC4/MC4 Compatible
Maximum wind load	2400 [Pa]
Maximum snow load	5400 [Pa]

PACKING

Packaging Configuration	37 pcs./pallet
	740pcs./ 40' HQ container

Unit: mm



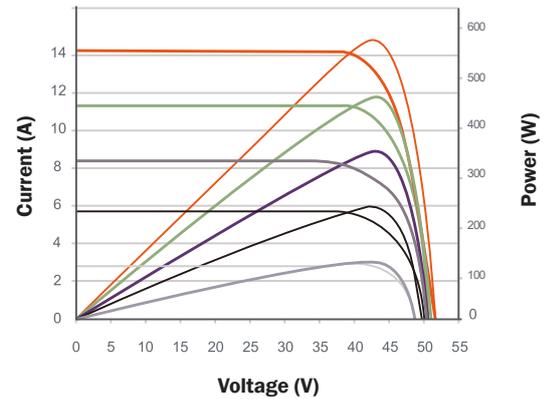
Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm

ELECTRICAL CHARACTERISTICS (STC)

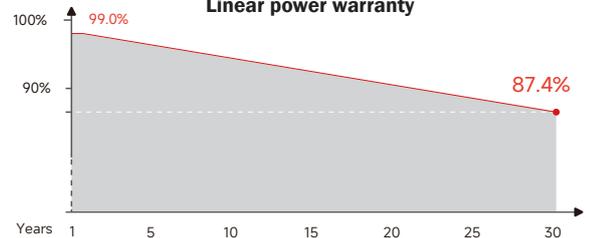
Maximum Power(Pmax)	630W
Open Circuit Voltage(Voc)	49.48V
Short Circuit Current(Isc)	16.20A
Maximum Power Voltage(Vmp)	41.02V
Maximum Power Current(Imp)	15.36A
Module Efficiency	23.3%
Power Tolerance	0 ~ +5W
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A
Operating Temperature	-40 °C to +85 °C

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

Electrical characteristics



Linear power warranty



25-year product warranty*
30-year power output warranty*
* specific information is referred to the product quality warranty

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



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