

JONSOL

JSM144

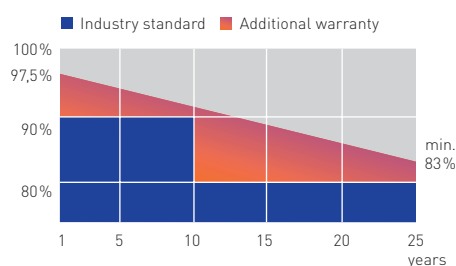
430-450W

MONO



The high quality and reliability of JONSOL are based on many years of production and industry experience, a mature module design and the automatic production process. The result is guaranteed high-performance JONSOL modules.

The monocrystalline JONSOL module of the Half Cell Series consists of 144 half cells. It delivers high power ratings and higher levels of efficiency and is therefore particularly suitable for limited areas and roof installations. The partial shading yield is increased thanks to the half cells.



JONSOL quality features JSM144 166 (BF)

- Module efficiency up to 20.37 percent
- Monocrystalline high-performance solar cells
- Structured special glass
- Fully automatic production lines
- Certification according to IEC 61215, EN IEC 61730
- Comprehensive quality controls
- 100 % electroluminescence test
- IP67 junction box for safety and long-term weather resistance
- Plus sorting up to 3 percent for a higher yield at the same price

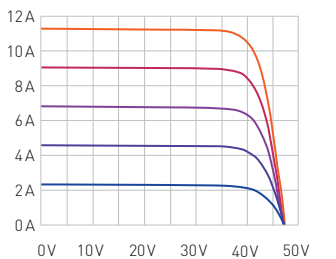
*Linear performance guarantee

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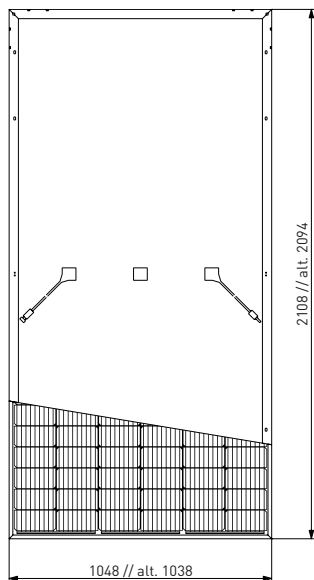
JSM144

430-450W

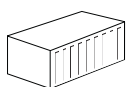
MONO



■ 1000 W/m² ■ 600 W/m² ■ 200 W/m²
■ 800 W/m² ■ 400 W/m²



Modules per pallet: 31 pcs.



Paletts // modules per container: 22 pcs. // 682 pcs.

Technical data (STC)

Nominal power (Pmax)	430 W	435 W	440 W	445 W	450 W
Nominal voltage (Vmp)	40.72 V	41.08 V	41.40 V	41.75 V	42.10 V
Nominal current (Imp)	10.56 A	10.59 A	10.63 A	10.66 A	10.69 A
Open circuit voltage (Voc)	48.69 V	48.99 V	49.25 V	49.55 V	49.84 V
Short-circuit current (Isc)	11.07 A	11.10 A	11.14 A	11.17 A	11.20 A
Efficiency	19.46 %	19.69 %	19.92 %	20.14 %	20.37 %

Permitted operating temperature -40°C - +85°C

Maximum system voltage 1500 V

Protection class II

Fire Safety Class (UL) A

Reverse Current Capability (I_R) 20 A

Power tolerance (W) 0 - +3 %

Measurement tolerances P_{mp} ± 3 %, I_{sc} & U_{oc} ± 3 % at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 // NMOT: 800 W/m², AM 1.5

Technical data (NMOT)

Nominal power (Pmax)	319 W	322 W	326 W	330 W	333 W
Nominal voltage (Vmp)	37.46 V	37.79 V	38.09 V	38.41 V	38.73 V
Nominal current (Imp)	8.55 A	8.58 A	8.61 A	8.63 A	8.66 A
Open circuit voltage (Voc)	45.77 V	46.05 V	46.30 V	46.58 V	46.85 V
Short-circuit current (Isc)	9.08 A	9.10 A	9.13 A	9.16 A	9.18 A

Temperature coefficient (STC)

Temperature coefficient (Pmax) -0.39 %/K

Temperature coefficient (Voc) -0.30 %/K

Temperature coefficient (Isc) 0.06 %/K

Standard temperature at normal operating conditions (NOCT) 43 +/- 2°C

Mechanical data

Cell Type monocrystalline, 144 half cells 166 x 83 mm

Module size (L x B x H) // alt. 2108 x 1048 x 35 mm // 2094 x 1038 x 35 mm

Weight 24.5 kg

Front cover Solar glass 3,2 mm, tempered, AR coated

Back cover Composite film

Frame anodized aluminum alloy

Junction Box IP68, 3 diodes

Cable 4 mm², ≥ 1.2 m, IP68

Connector MC4 compatible, IP68

max. mechanical load Tensile load: 2400 Pa, Pressure load: 5400 Pa

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