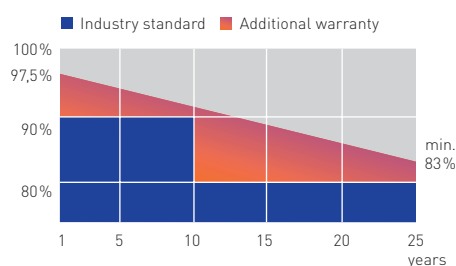


JONSOL
JSM144
530-550W
MONO



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 120 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 182

- Module efficiency up to 21.50 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

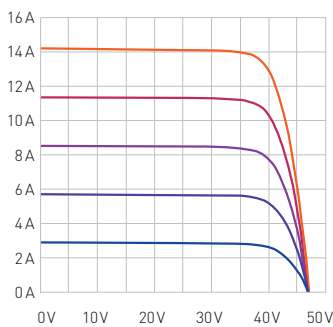
*Linear performance guarantee

JONSOL

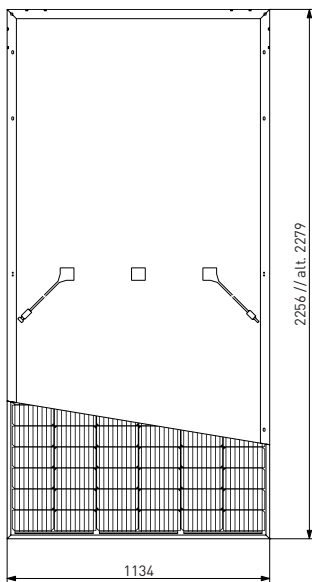
JSM144

530-550W

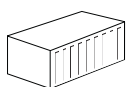
MONO



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



Modules per pallet:
31 pcs.



Palettes // modules per container:
20 pcs. // 620 pcs.

Technical data (STC)

Nominal power (Pmax)	530 W	535 W	540 W	545 W	550 W
Nominal voltage (Vmp)	40.56 V	40.63 V	40.70 V	40.80 V	40.90 V
Nominal current (Imp)	13.07 A	13.17 A	13.27 A	13.36 A	13.45 A
Open circuit voltage (Voc)	49.26 V	49.34 V	49.42 V	49.52 V	49.62 V
Short-circuit current (Isc)	13.71 A	13.79 A	13.85 A	13.94 A	14.03 A
Efficiency	20.72 %	20.91 %	21.11 %	21.30 %	21.50 %

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) 25 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)	395 W	398 W	402 W	406 W	409 W
Nominal voltage (Vmp)	37.77 V	37.83 V	37.90 V	37.99 V	38.09 V
Nominal current (Imp)	10.44 A	10.52 A	10.60 A	10.67 A	10.74 A
Open circuit voltage (Voc)	46.50 V	46.57 V	46.65 V	46.74 V	46.84 V
Short-circuit current (Isc)	11.08 A	11.14 A	11.19 A	11.26 A	11.33 A

Temperature coefficient (STC)

Temperature coefficient (Pmax) -0.35 %/K

Temperature coefficient (Voc) -0.27 %/K

Temperature coefficient (Isc) 0.048 %/K

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

Mechanical data

Cell Type monocrystalline, 120 half cells 182 x 91 mm

Module size (L x B x H) // alt. 2256 x 1134 x 35 mm // 2279 x 1134 x 35 mm

Weight 27.2 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 m, IP68

Connector MC4 compatible, IP68

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

Version 6/2021. The specifications and properties contained in this data sheet may vary slightly and are not guaranteed. JONSOL reserves the right to make changes to the information contained herein at any time without notice due to continuous innovation, research and product improvement. Please always keep the current version of the data sheet available. It is a binding part of the contract for all contractual partners when purchasing and selling the products described in the data sheets. The instructions of the manual must be followed. The data sheet corresponds to DIN EN 50380.