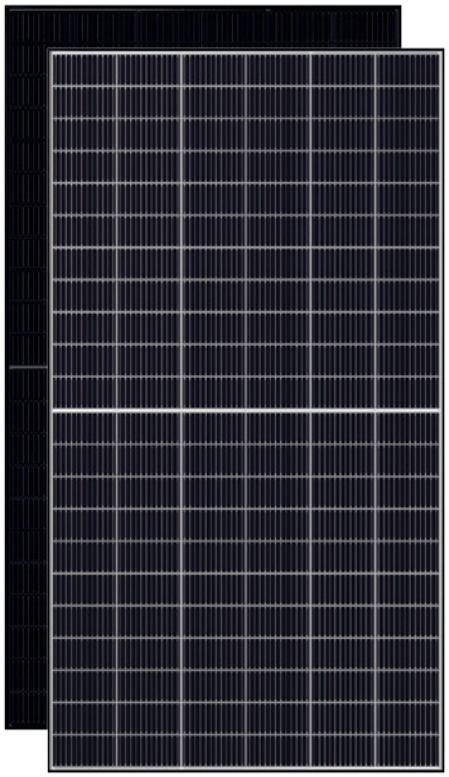


JONSOL JSM132 645-655W MONO (FULLBLACK)

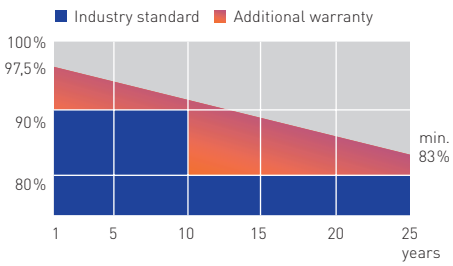
25 YEARS PRODUCT GUARANTEE

25 YEARS PERFORM.* GUARANTEE

COVERED

CE IEC CERTIFIED

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.



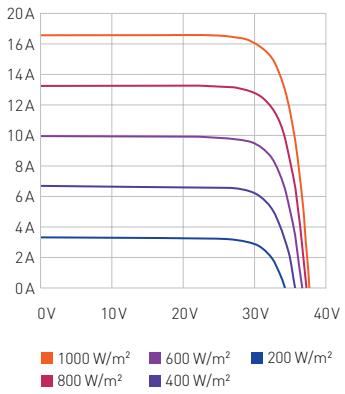
*Linear performance guarantee

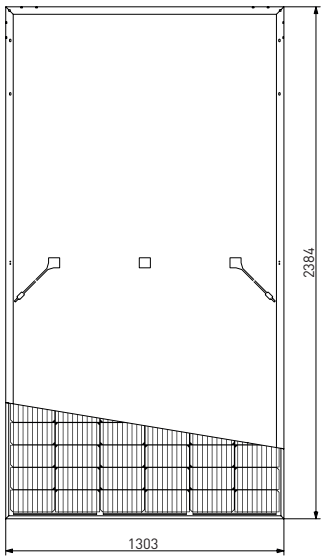
The monocrystalline JONSOL module of the Half Cell Series consists of 132 half cells. It delivers high power ratings and higher levels of efficiency and is therefore particularly suitable for limited areas and roof installations. The partial shading yield is increased thanks to the half cells.

JONSOL quality features JSM132 210 (FULLBLACK)

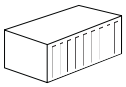
- Module efficiency up to 21.09 percent
- Monocrystalline high-performance solar cells
- Structured special glass
- Fully automatic production lines
- Certification according to IEC 61215, EN IEC 61730
- Comprehensive quality controls
- 100 % electroluminescence test
- IP67 junction box for safety and long-term weather resistance
- Plus sorting up to 3 percent for a higher yield at the same price

JONSOL
JSM132
645-655W
MONO (FB)





Modules per palett: 31 pcs.



Paletts // modules per container: 17 pcs. // 527 pcs.

Technical data (STC)

Nominal power (Pmax)	645 W	650 W	655 W
Nominal voltage (Vmp)	37.72	37.93	38.13
Nominal current (Imp)	17.10	17.14	17.18
Open circuit voltage (Voc)	44.82	45.02	45.22
Short-circuit current (Isc)	18.34	18.38	18.42
Efficiency	20.76 %	20.92 %	21.09 %
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)	30 A		
Power tolerance (W)	0 - +3 %		

Measurement tolerances Pmpp ± 3 %, Isc & Uoc ± 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)	484 W	488 W	492 W
Nominal voltage (Vmp)	35.10	35.32	35.50
Nominal current (Imp)	13.79	13.82	13.86
Open circuit voltageg (Voc)	42.61	42.81	42.99
Short-circuit current (Isc)	14.79	14.83	14.86

Temperature coefficient (STC)

Temperature coefficient (Pmax)	-0.36 %/K
Temperature coefficient (Voc)	-0.29 %/K
Temperature coefficient (Isc)	0.048 %/K

Standard temperature at normal operating conditions (NOCT) 42 +/-3°C

Mechanical data

Cell Type	monocrystalline, 132 half cells 210 x 105 mm
Module size (L x B x H)	2384 x 1303 x 35 mm
Weight	34 kg
Front cover	Solar glass 3.2 mm, temepered, AR coated
Back cover	Composite film
Frame	anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4 mm², ≥ 1.2 m, IP68
Connector	MC4 or comparable to MC4, IP68
max. mechanical load	Tensile load: 2400 Pa, Pressure load: 5400 Pa

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