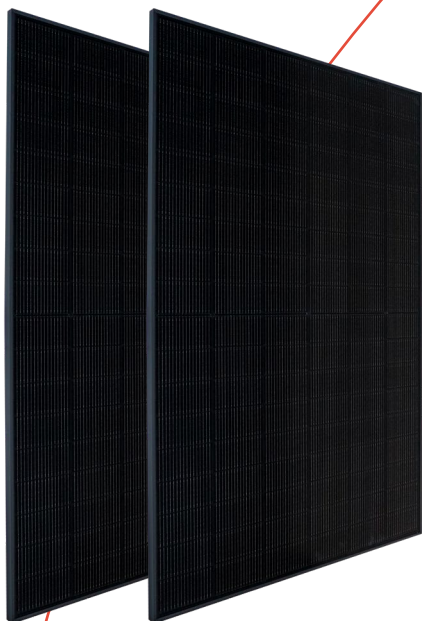


Have sun!

With IBC TopFix 200 incl. 3rd rail

Highest  
mechanical  
stability  
(8,000 Pa)



#### Extended performance warranty

Guaranteed higher long-term electricity profits owed to TOPCon technology.



#### Higher low light output

Even in low light conditions, for example at dusk and on cloudy days, increased power production is ensured.



#### Optimized temperature coefficient

More power generation at hot temperatures by TOPCon technology.



#### Aesthetic design

Elegant black design for a homogeneous and high-quality appearance.

[Product datasheet](#)

# IBC MonoSol 425 - 440 MS10-HC-N Black GEN2

Elegant black design and  
high-performance in combination.

Online shop:  
Find our products  
and further  
information here.



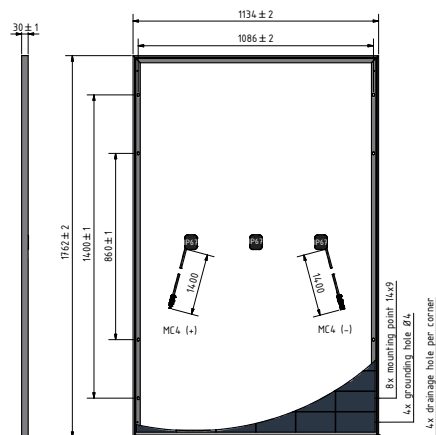
#### You also benefit from:

- a positive power tolerance (-0/+3%)
- increased mechanical stability (5,400 Pa)
- a German guarantor
- 100% proved quality
- a 30-year performance warranty
- a 25-year product warranty



ENGINEERED  
IN GERMANY

Have sun!



IBC MonoSol	425 MS10-HC-N Black GEN2	430 MS10-HC-N Black GEN2	435 MS10-HC-N Black GEN2	440 MS10-HC-N Black GEN2
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Article number	2002800130	2002800131	2002800132	2002800145
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#### Electrical data (STC)<sup>3</sup>

STC Power P <sub>max</sub> (Wp)	425	430	435	440
STC Nominal Voltage U <sub>mp</sub> (V)	32.37	32.58	32.78	32.99
STC Nominal Current I <sub>mp</sub> (A)	13.13	13.2	13.27	13.34
STC Open Circuit Voltage U <sub>oc</sub> (V)	38.95	39.16	39.36	39.57
STC Short Circuit Current I <sub>sc</sub> (A)	13.58	13.65	13.72	13.80
Module Efficiency (%)	21.27	21.52	21.77	22.02
Power Tolerance (%)	-0/+3	-0/+3	-0/+3	-0/+3

#### Electrical data (NMOT)

NMOT (°C)	45	45	45	45
800 W/m <sup>2</sup> NMOT AM 1.5 Power P <sub>max</sub> (Wp)	320	323	327	331
800 W/m <sup>2</sup> NMOT AM 1.5 Nominal Voltage U <sub>mp</sub> (V)	30.19	30.3	30.5	30.73
800 W/m <sup>2</sup> NMOT AM 1.5 Open Circuit Voltage U <sub>oc</sub> (V)	37.0	37.2	37.39	37.59
800 W/m <sup>2</sup> NMOT AM 1.5 Short Circuit Current I <sub>sc</sub> (A)	10.96	11.02	11.08	11.14
Relative Efficiency Reduction at 200 W/m <sup>2</sup> (%)	3.0	3.0	3.0	3.0

#### Temperature coefficient (linear)

Tempcoeff I <sub>sc</sub> (%/°C)	+0.046	+0.046	+0.046	+0.046
Tempcoeff U <sub>oc</sub> (mV/°C)	-97.38	-97.9	-98.4	-98.93
Tempcoeff P <sub>mp</sub> (%/°C)	-0.3	-0.3	-0.3	-0.3

#### Operating conditions

Max. System Voltage (V)	1000
Application Class	A
Reverse Current I <sub>r</sub> (A)	25
Fuse protection from parallel strings	2
Protection class	II (DIN EN 61140)
Fire protection	Class C (IEC 61730-ANSI/UL790)

#### Mechanical properties

Dimensions (L × W × H in mm)	1762 × 1134 × 30
Weight (kg)	22.0
Max. Test load, Push/Pull (Pa)	5400/2400
Max. Design load <sup>2</sup> , Push/Pull (Pa)	3600/1600
Front sheet (mm)	3.2 (low-iron photovoltaic glass and anti-reflective coating)
Frame	anodized aluminium, sturdy hollow-chamber frame
Cells	12 × 9 mono-crystalline silicon cells
Connection type	MC4

#### Warranties and certification

Product warranty	25 years <sup>1</sup>
Performance warranty	30 years <sup>1</sup>
Annual degradation	year 1 1.0 % year 2-30 0.4 %
Certification	IEC 61215, IEC 61730-1/-2, ISO 9001, ISO 14001, OHSAS 18001

#### Packaging information

Number of modules per pallet	36
Number of pallets per truck	28
Dimensions incl. pallet (L × W × H in mm)	1792 x 1120 x 1249
Gross weight incl. double pallet (kg)	831
Stackability per pallet	2-fold

1) The linear power and product warranty are only valid for installations within Europe and Japan. The warranty requires installation according to the valid installation instructions. Standard test conditions: 1000 W/m<sup>2</sup> irradiation with a spectral distribution of AM 1.5 and a cell temperature of 25°C. 800 W/m<sup>2</sup>, NOCT. Information according to EN 60904-3 (STC). All values according to DIN EN 50380. Errors and changes reserved. The precise conditions and content can be taken from the respectively valid version of the product and power warranty, which you can obtain from your IBC Premium Partner.

2) Loads according to IEC 61215-2:2016, max. design load

3) Measurement tolerances +/- 3% at STC: 1000 W/m<sup>2</sup>, 25 +/- 2 °C, AM 1.5

Your Premium Partner