

Have sun!

On modules & mounting systems  
**15 years  
combination  
warranty**



[Product datasheet](#)

# IBC MonoSol 400 | 405 OS10-HC Black

Elegant black design and  
high-performance in combination.

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## Environmental impacts

Maximum lifetime under extreme conditions like high salt or ammonia exposure.

## Ribbons

Improved light efficiency with angled light irradiation benefited by round cell connector design.

## Multi-busbar technology

Reduced power and shading losses by using of 9 cell connectors.

## Aesthetic design

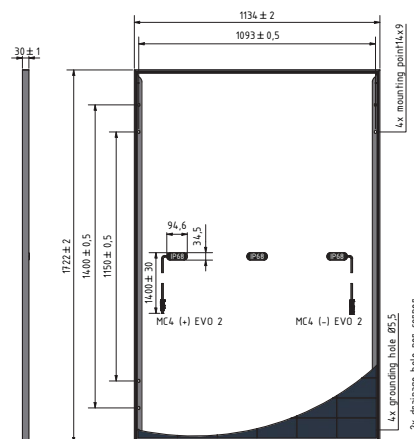
Elegant black design for a homogeneous and high-quality appearance.

## You also benefit from:

- a positive power tolerance (-0/+3%)
- increased mechanical stability (5400 Pa)
- a German guarantor
- 100% proved quality
- a 25-year performance warranty
- a 10-year product warranty



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IBC MonoSol	400 OS10-HC Black	405 OS10-HC Black	Operating conditions	
Article number	2005700104	2005700108	Max. System Voltage (V)	1000
<b>Electrical data (STC)<sup>2</sup></b>			Application Class	A
STC Power P <sub>max</sub> (Wp)	400	405	Reverse Current I <sub>r</sub> (A)	25
STC Nominal Voltage U <sub>mp</sub> (V)	30.94	31.18	Fuse protection from parallel strings	2
STC Nominal Current I <sub>mp</sub> (A)	12.93	12.99	Protection class	II (DIN EN 61140)
STC Open Circuit Voltage U <sub>oc</sub> (V)	36.9	37.15	Fire protection	Class C (IEC 61730-ANSI/UL790)
STC Short Circuit Current I <sub>sc</sub> (A)	13.72	13.78	<b>Mechanical properties</b>	
Module Efficiency (%)	20.5	20.7	Dimensions (L × W × H in mm)	1722 × 1134 × 30
Power Tolerance (%)	-0/+3	-0/+3	Weight (kg)	21.5
<b>Electrical data (NMOT)</b>			Max. Test load, Push/Pull (Pa)	5400/2400
NMOT (°C)	45	45	Max. Design load <sup>2</sup> , Push/Pull (Pa)	3600/1600
800 W/m <sup>2</sup> NMOT AM 1.5 Power P <sub>max</sub> (Wp)	299	302.7	Front sheet (mm)	3.2 (low-iron photovoltaic glass and anti-reflective coating)
800 W/m <sup>2</sup> NMOT AM 1.5 Nominal Voltage U <sub>mp</sub> (V)	28.74	28.96	Frame	anodized aluminium, sturdy hollow-chamber frame
800 W/m <sup>2</sup> NMOT AM 1.5 Open Circuit Voltage U <sub>oc</sub> (V)	34.70	34.93	Cells	12 × 9 mono-crystalline silicon cells
800 W/m <sup>2</sup> NMOT AM 1.5 Short Circuit Current I <sub>sc</sub> (A)	11.09	11.14	Connection type	MC4
Relative Efficiency Reduction at 200 W/m <sup>2</sup> (%)	3.0	3.0	<b>Warranties and certification</b>	
<b>Temperature coefficient (linear)</b>			Product warranty	10 years <sup>1</sup>
Tempcoeff I <sub>sc</sub> (%/°C)	0.05	0.05	Performance warranty	25 years <sup>1</sup>
Tempcoeff U <sub>oc</sub> (mV/°C)	-97.79	-98.45	Annual degradation	year 1 2.5% year 2-25 0.7%
Tempcoeff P <sub>mp</sub> (%/°C)	-0.34	-0.34	Certification	IEC 61215, IEC 61730-1/-2, ISO 9001, ISO 14001, OHSAS 18001
			<b>Packaging information</b>	
			Number of modules per pallet	36
			Number of pallets per 40' container	26
			Dimensions incl. pallet (L × W × H in mm)	1767 × 1130 × 1243
			Gross weight incl. double pallet (kg)	824
			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