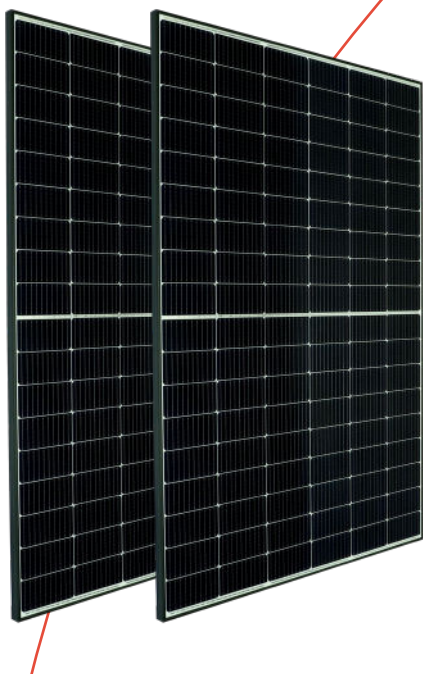


Have sun!

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



[Product datasheet](#)

IBC MonoSol 400 | 405 | 410 CS10-HC

Long lifetime and high-performance
in combination.

Online shop:
Find our products
and further
information here.



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 10 cell connectors.

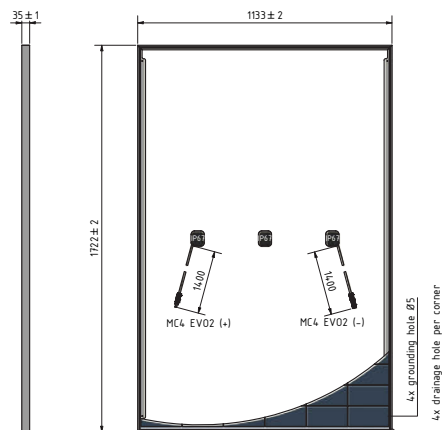
You also benefit from:

- a positive power tolerance (-0/+5)
- increased mechanical stability (5400 Pa)
- a German guarantor
- 100% proved quality
- a 25-year performance warranty
- a 15-year product warranty



ENGINEERED
IN GERMANY

Have sun!



IBC MonoSol	400 CS10-HC	405 CS10-HC	410 CS10-HC
Article number	2003800032	2003800033	2003800034
Electrical data (STC)³			
STC Power Pmax (Wp)	400	405	410
STC Nominal Voltage Umpp (V)	30.56	30.73	30.90
STC Nominal Current Impp (A)	13.10	13.19	13.27
STC Open Circuit Voltage Uoc (V)	36.87	37.07	37.22
STC Short Circuit Current Isc (A)	13.55	13.64	13.74
Module Efficiency (%)	20.50	20.75	21.01
Power Tolerance (Wp)	-0/+5	-0/+5	-0/+5
Electrical data (NMOT)			
NMOT (°C)	45	45	45
800 W/m ² NMOT AM 1.5 Power Pmax (Wp)	300	303	307
800 W/m ² NMOT AM 1.5 Nominal Voltage Umpp (V)	28.89	29.04	29.22
800 W/m ² NMOT AM 1.5 Open Circuit Voltage Uoc (V)	34.92	35.01	35.12
800 W/m ² NMOT AM 1.5 Short Circuit Current Isc (A)	11.08	11.14	11.12
Relative Efficiency Reduction at 200 W/m ² (%)	4.3	4.3	4.4
Temperature coefficient (linear)			
Tempcoeff Isc (%/°C)	0.048	0.048	0.048
Tempcoeff Uoc (mV/°C)	-92.91	-93.42	-93.79
Tempcoeff Pmpp (%/°C)	-0.332	-0.332	-0.332

Operating conditions	
Max. System Voltage (V)	1500
Application Class	A
Reverse Current Ir (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)	1722 × 1133 × 35
Weight (kg)	22.5
Max. Test load, Push/Pull (Pa)	5400/2400
Max. Design load ² , 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	EVO2
Warranties and certification	
Product warranty	15 years ¹
Performance warranty	25 years ¹
Annual degradation	year 1 2.5% year 2-25 0.7%
Certification	IEC 61215, IEC 61730-1/-2, ISO 9001, ISO 14001, OHSAS 18001
Packaging information	
Number of modules per pallet	31
Number of pallets per 40' container	26
Dimensions incl. pallet (L × W × H in mm)	1760 × 1130 × 1255
Gross weight incl. double pallet (kg)	720
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/m² irradiation with a spectral distribution of AM 1.5 and a cell temperature of 25°C. 800 W/m², 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/m², 25 +/- 2 °C, AM 1.5

Your Premium Partner