



IBC EcoLine – For particularly stable output

IBC MonoSol 250 CS Black

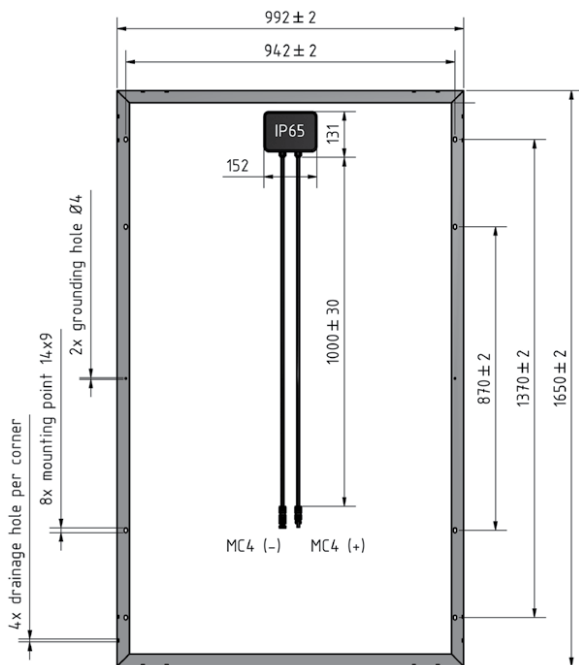
Solar modules made by monocrystalline silicon

Regardless of whether it is used on detached houses, the roofs of industrial properties or on open spaces, tried and tested IBC MonoSol CS Black photovoltaic modules are suitable for any application requiring a high quality, efficiency and profitability. Continuous quality assurance and process audits during production guarantee a particularly long service life of the modules with a maximum of output, efficiency and reliability. Thanks to the anti-reflective coating on the front glass panels, these modules capture even more light to be more efficient and produce optimum yields.

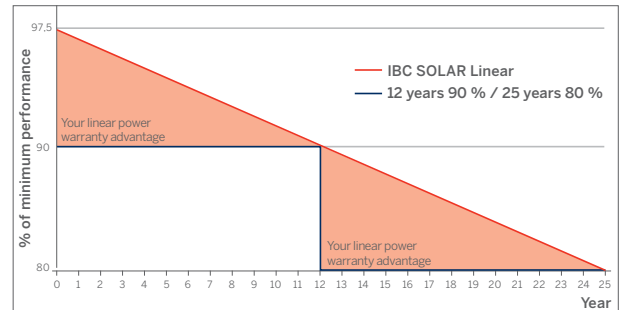
IBC MonoSol CS Black modules live up to maximum aesthetic demands. These completely black modules with black cell, black frame and black foil visually integrate on any roof and are even suitable for listed buildings.

Highlights:

- 10-year product warranty*
- 25 years linear power warranty*
- Positive power tolerance $-0/+5$ Wp
- Highly effective with low-iron photovoltaic glass and anti-reflective coating (thickness 3.2 mm)
- Sturdy hollow-chamber frame
- Tested according IEC 61215 for snow loads up to 5400 Pa (ca. 550 kg/m²)
- IEC 61730, application class A for system voltages up to 1000 V, protection class II
- Produced in facilities certified as per ISO 9001, ISO 14001 and OHSAS 18001
- Regular product/process/quality assurance audits in production
- Quality tested by IBC SOLAR in own laboratory with climate chambers and flasher with integrated electroluminescence measurement



Progression of the power warranty



TECHNICAL DATA

IBC MonoSol	250 CS Black
STC Power Pmax (Wp)	250
STC Nominal Voltage Umpp (V)	30.38
STC Nominal Current Impp (A)	8.23
STC Open circuit voltage Uoc (V)	38.19
STC Short circuit current Isc (A)	8.81
800 W/m ² NOCT AM 1.5 Power Pmax (Wp)	179.33
800 W/m ² NOCT AM 1.5 Nominal Voltage Umpp (V)	27.76
800 W/m ² NOCT AM 1.5 Open Circuit Voltage Uoc (V)	35.12
800 W/m ² NOCT AM 1.5 Short Circuit Current Isc (A)	6.81
Rel. efficiency reduction @ 200 W/m ² (%)	3.34
Tempcoefficient Isc (%/°C)	+0.034
Tempcoefficient Uoc (mV/°C)	-124
Tempcoefficient Pmpp (%/°C)	-0.47
Module Efficiency (%)	15.6
NOCT (°C)	47
Max. System Voltage (V)	1000
Max. Reverse Current Ir (A)	20
Current value String fuse (A)	15
Fuse protection from parallel strings	4
Height (mm)	45
Weight (kg)	20.5
Article number	2003800004

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* The linear power warranty is only valid for installations within Europe and Japan. For further information, please refer to the corresponding product and power warranty in accordance with the version of the full warranty conditions received from your specialized IBC SOLAR partner at the time of installation. This warranty is valid only when the product is installed in accordance with the applicable installation instructions. Electrical values under standard test conditions: 1000 W/m²; 25 °C, AM 1.5. 800 W/m², NOCT. Specifications according EN 60904-3 (STC). All datas according DIN EN 50380. Subject to modifications that represent progress.