



IBC EcoLine

## IBC ECOLINE - THE RELIABLE CHOICE FOR STEADY RETURNS

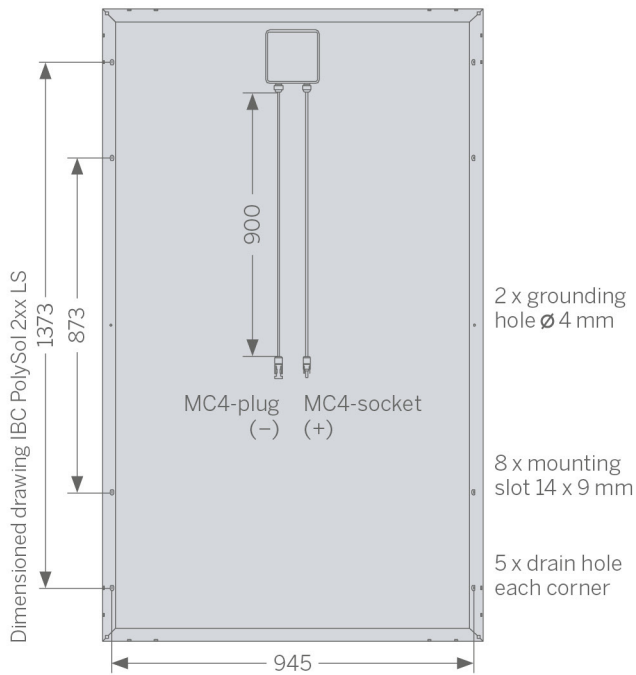
### IBC PolySol 230 LS, 235 LS

#### POLYCRYSTALLINE SOLAR MODULES

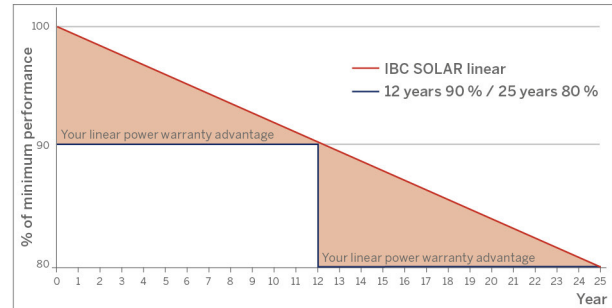
Whether for single family homes, industrial roofs or open spaces - the trusted polycrystalline solar modules, IBC PolySol, are perfectly suited for anyone placing high demands on quality and cost efficiency. IBC SOLAR defines the most stringent specifications for components used, ensuring you the best results. The acidic textured cells absorb light even better. Thanks to the modules' positive power tolerance and linear performance guarantee, you'll benefit from high output and returns.

#### HIGHLIGHTS

- ❑ 10-year product warranty\*
- ❑ 25 years linear power warranty\*  
linear power decrease of no more than 0,8% per year,  
80% / 25 years
- ❑ Power tolerance -0/+5 Wp
- ❑ Low-iron solar glass and sturdy hollow-chamber frame
- ❑ Tested according IEC 61215 for snow loads up to 5400 Pa (ca. 550 kg/m<sup>2</sup>)
- ❑ IEC 61730, Application Class A for system voltages up to 1,000 V
- ❑ IEC 61215 tested and certified
- ❑ Produced in ISO 9001 certified factories
- ❑ 100% end control with individual registration of the electrical characteristics
- ❑ Quality tested by IBC SOLAR in own laboratory with climate chambers and flasher with integrated electroluminescence measurement



Your linear power warranty advantage



## TECHNICAL DATA

IBC PolySol	230 LS	235 LS
STC Power Pmax (Wp)	230	235
STC Nominal Voltage Umpp (V)	29,7	30,1
STC Nominal Current Impp (A)	7,74	7,81
STC Open circuit voltage Uoc (V)	36,7	36,7
STC Short circuit current Isc (A)	8,72	8,86
800 W/m <sup>2</sup> NOCT AM1.5 Power Pmax (Wp)	165,1	167,7
800 W/m <sup>2</sup> NOCT AM1.5 Nominal Voltage Umpp (V)	26,1	26,3
800 W/m <sup>2</sup> NOCT AM1.5 Open Circuit Voltage Uoc (V)	33,8	33,8
800 W/m <sup>2</sup> NOCT AM1.5 Short Circuit Current Isc (A)	6,83	6,93
Rel. efficiency reduction @ 200W/m <sup>2</sup> (%)	4,5	4,5
Tempcoeff Isc (%/°C)	+0,06	+0,06
Tempcoeff Uoc (mV/°C)	-125	-125
Tempcoeff Pmpp (%/°C)	-0,44	-0,44
Module Efficiency (%)	14,0	14,3
NOCT °C	47	47
Max. System Voltage (V)	1000	1000
Current value String fuse (A)	15	15
Fuse protection from parallel strings	3	3
Length (mm)	1653	1653
Width (mm)	995	995
Height (mm)	45	45
Weight (kg)	20,0	20,0
Articlenumber	2202700003	2202700004

Your IBC SOLAR partner:

21.11.2011

\* 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 relevant product is installed in accordance with the applicable installation instructions. Electrical values under standard test conditions: 1000W/m<sup>2</sup>; 25°C, AM1.5, 800 W/m<sup>2</sup>, NOCT. Specifications according EN60904-3 (STC). All datas according DIN EN 50380. Subject to modifications that represent process.