Smart Systems
for Solar Power

IBC SOLAR




## The Value-Added Modules of the IBC SOLAR Line.

# IBC MonoSol 300 ZX5, 305 ZX5

**First-class solar modules made of monocrystalline silicon (PERC cell concept)**

- 25 year power and 10 year product warranty[1]
- Positive power tolerance (–0/+5 Wp)
- Increased mechanical stability (5400 Pa)[2]
- German warrantor
- 100% tested quality
- Maximum transparent ARC glass

### IBC SOLAR – your partner for energy solutions

IBC SOLAR AG has had a successful presence in the photovoltaic market for **more than 35 years** and is one of the leading international energy companies providing high-performance system solutions in every size and for every application with intelligent photovoltaic systems. The **economic strength and financial independence** is confirmed by globally recognised rating agencies.

Smart Systems for Solar Power thanks to perfectly matched components. **More than 1,000 highly qualified partners** around the world, as well as **more than 3,000 megawatts of installed power**, which supply **around 2 million people with solar power**, underline the high level of expertise of IBC SOLAR.

**IBC SOLAR – leading PV system integrator from Germany since 1982!**

TÜVRheinland ZERTIFIZIERT OHSAS 18001:2007 ISO 9001:2008 ISO 14001:2004 www.tuv.com ID 9105069440

Intertek EU

CE

**Engineered in GERMANY**

**Made in EUROPE**

The ideal solution for: Home

## TECHNICAL DATA

| IBC MonoSol | 300 ZX5 | 305 ZX5 |
|---|---|---|
| Article number | 2004100043 | 2004100044 |

| Electrical data (STC): | | |
|---|---|---|
| STC Power Pmax (Wp) | 300 | 305 |
| STC Nominal Voltage Umpp (V) | 32.1 | 32.6 |
| STC Nominal Current Impp (A) | 9.35 | 9.36 |
| STC Open Circuit Voltage Uoc (V) | 39.6 | 40.2 |
| STC Short Circuit Current Isc (A) | 9.74 | 9.87 |
| Module Efficiency (%) | 18.4 | 18.9 |
| Power Tolerance (Wp) | –0/+5 | –0/+5 |

| Electrical data (NOCT): | | |
|---|---|---|
| 800 W/m² NOCT AM 1.5 Power Pmax (Wp) | 220 | 224 |
| 800 W/m² NOCT AM 1.5 Nominal Voltage Umpp (V) | 29.9 | 30.1 |
| 800 W/m² NOCT AM 1.5 Open Circuit Voltage Uoc (V) | 37.1 | 37.3 |
| 800 W/m² NOCT AM 1.5 Short Circuit Current Isc (A) | 7.93 | 8.02 |
| Relative Efficiency Reduction at 200 W/m² (%) | 2.5 | 2.5 |

| Temperature coefficient: | | |
|---|---|---|
| NOCT (°C) | 46 | 46 |
| Tempcoeff Isc (%/°C) | +0.05 | +0.05 |
| Tempcoeff Voc (mV/°C) | –118.92 | –120.60 |
| Tempcoeff Pmpp (%/°C) | –0.42 | –0.42 |

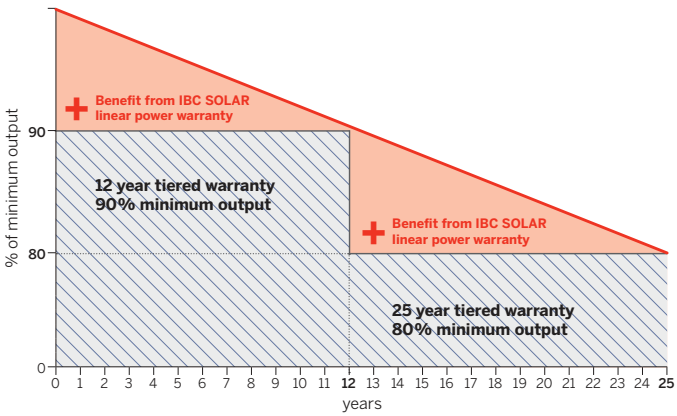
| Operating conditions: | |
|---|---|
| Max. System Voltage (V) | 1000 |
| Application Class | A |
| Reverse Current Ir (A) | 20 |
| Current value string fuse (A) | 15 |
| Fuse protection from parallel strings | 4 |

| Mechanical properties: | |
|---|---|
| Dimensions (L × W × H in mm) | 1640 × 992 × 40 |
| Weight (kg) | 18.5 |
| Load capacity (Pa)[2] | 5400 |
| Front sheet (mm) | 3.2 (low-iron photovoltaic glass and anti-reflective coating) |
| Frame | anodized aluminium, sturdy hollow-chamber frame |
| Cells | 6 × 10 monocrystalline silicon cells |
| Connection type | MC4 (IP65) |

| Warranties and certification: | |
|---|---|
| Product warranty | 10 years[1] |
| Power warranty | 25 years, linear |
| Certification | IEC 61215, IEC 61730-1/-2, ISO 9001, ISO 14001, OHSAS 18001 |

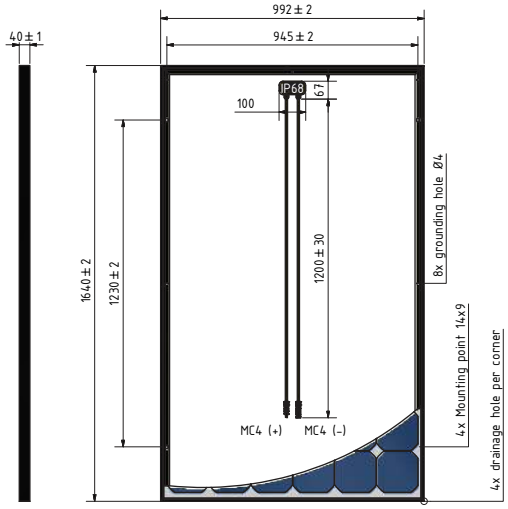
| Packaging information: | |
|---|---|
| Number of modules per pallet | 26 |
| Number of pallets per 40' container | 28 |
| Number of pallets per lorry | 32 |
| Dimensions incl. pallet (L × W × H in mm) | 1690 × 1150 × 1180 |
| Gross weight incl. pallet (kg) | 556 |
| Stackability per pallet | 2-fold |

## 25 year linear power warranty by IBC SOLAR




linear power warranty IBC SOLAR

12 year tiered warranty 90% / 25 year 80%




Presented by:

[1] The warranty presupposes installation in accordance with 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. The precise conditions and content can be taken from the respectively valid version of the product and power warranty, which you obtain from your IBC Premium Partner. Subject to errors and modifications.

[2] Tested according to IEC 61215 for snow loads up to 5400Pa (5.4 kN/m²).

As of: 2017-11-20
9001500063