

# SOLON photovoltaic modules

- ➔ Reduce CO<sub>2</sub> emissions by 15,000 kg / kW<sub>p</sub> over a 20-year period
- ➔ Greater power from the same surface area
- ➔ Solar glass ensures high energy yields
- ➔ Individual performance data sheets for each module
- ➔ Made in Germany

## Modules

SOLON is one of the main manufacturers of solar modules in Europe, offering its customers only high-grade quality modules. An excellent energy yield is guaranteed because we use high-quality crystalline solar cells and tempered solar glass that is extremely transparent.

## Solar glass

We use special solar glass from well-known suppliers for manufacturing our photovoltaic modules. This glass has a special surface structure and an increased light transmittance. This significantly increases the energy yields of the SOLON solar energy systems – over the entire module lifetime.

## Frames

Our module frames are made from extruded anodised aluminium. They are extremely torsion resistant, have drainage bores, and are suitable for all existing installation systems. On request SOLON can provide modules without frames.

## Power output guarantee

The module's output will still be 90 percent in 10 years, and 80 percent in 25 years, based on the minimum output levels at delivery. Please find our power output guarantee on our website at [www.solon-pv.com/english/service](http://www.solon-pv.com/english/service).

## Certification

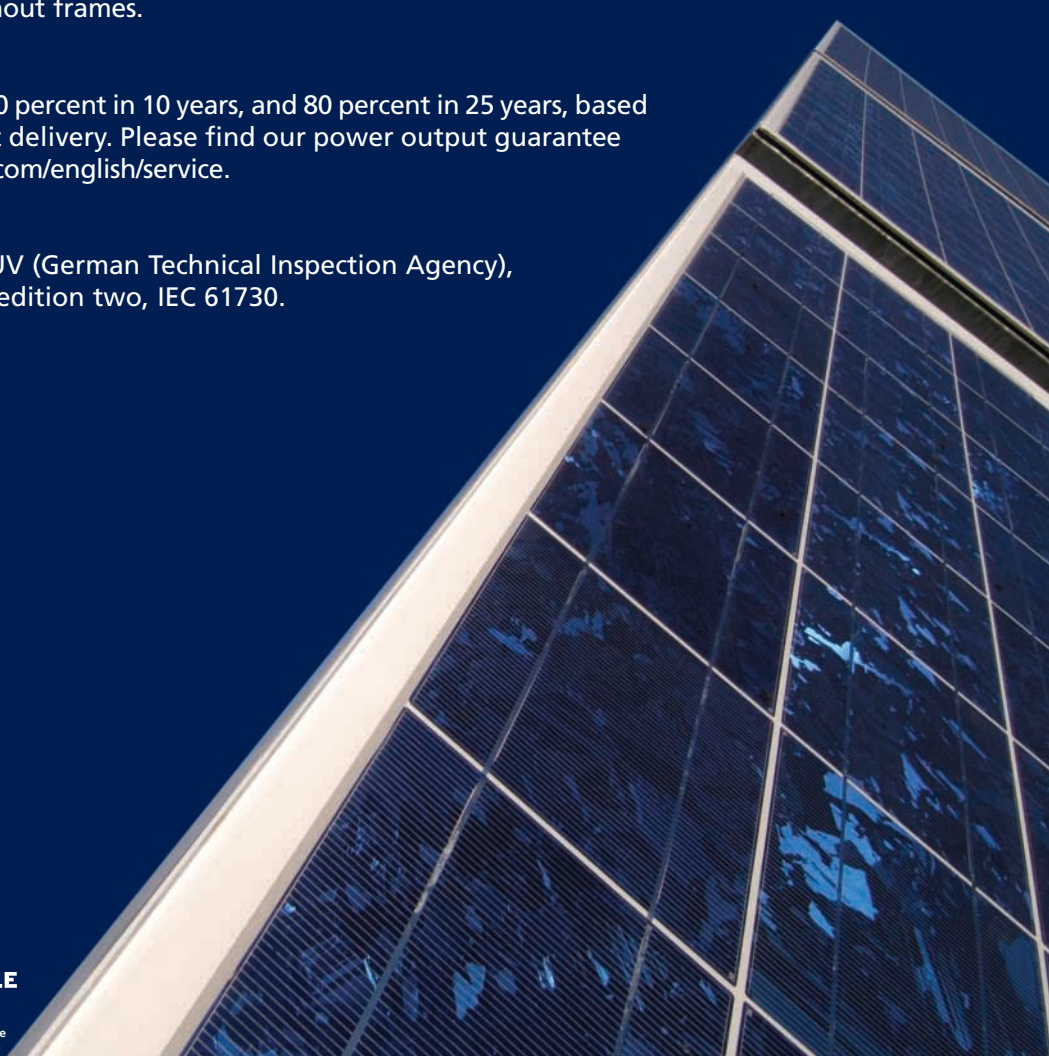
SOLON modules are tested by TÜV (German Technical Inspection Agency), certified according to IEC 61215 edition two, IEC 61730.

## Contact

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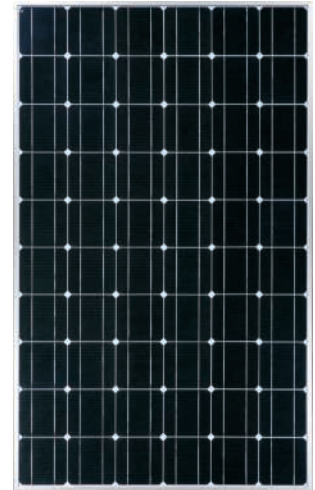
100% recyclable



# SOLON Black 230/07

## Mechanical Specifications

Length:	1,640 mm
Width:	1,000 mm
Height:	42 mm
Weight:	23.5 kg
Junction box:	1 SOLON EDII junction box with 3 bypass diodes
Cable:	Solar cable, length 900 mm, 4 mm <sup>2</sup> , connectors prefabricated with MC-4 plug
Front glass:	White toughened safety glass, 4 mm
Cells:	60 pcs. monocrystalline Si 6.2" (156 mm x 156 mm)
Cell encapsulation:	EVA (Ethylen-Vinyl-Acetat)
Back:	Tedlar composite film
Frame:	Anodized aluminium profile



## Electrical Specifications (typical)

Module class P <sub>max</sub> (± 3 %):	240 W <sub>p</sub>	235 W <sub>p</sub>	230 W <sub>p</sub>	225 W <sub>p</sub>	220 W <sub>p</sub>	215 W <sub>p</sub>	210 W <sub>p</sub>	205 W <sub>p</sub>	200 W <sub>p</sub>
Rated voltage U <sub>mpp</sub> :	29.7 V	29.4 V	28.8 V	28.3 V	28.1 V	27.5 V	27.1 V	26.7 V	26.3 V
Rated current I <sub>mp</sub> :	8.10 A	8.00 A	8.00 A	7.95 A	7.85 A	7.82 A	7.76 A	7.71 A	7.65 A
Open circuit voltage U <sub>oc</sub> :	36.7 V	36.5 V	36.4 V	36.0 V	35.8 V	35.6 V	35.4 V	35.1 V	34.9 V
Short circuit current I <sub>sc</sub> :	8.80 A	8.75 A	8.75 A	8.70 A	8.60 A	8.59 A	8.54 A	8.50 A	8.45 A
Maximum system voltage:	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V
Module efficiency:	14.63 %	14.33 %	14.02 %	13.72 %	13.41 %	13.11 %	12.80 %	12.50 %	12.20 %

Temperature coefficient of open circuit voltage: -0.33 %/K

Temperature coefficient of short-circuit current: 0.03 %/K

Temperature coefficient of power: -0.43 %/K

These values are effective for irradiation of 1000 W/m<sup>2</sup>, AM 1.5, and a cell temperature of 25 °C (standard test conditions). The modules can be delivered with their respective data sheets upon request.

## Operating conditions

Temperature range:	-40 °C to +85 °C
Hail:	maximum diameter of 28 mm with impact speed of 86 km/h
Maximum surface load capacity:	tested up to 5,400 Pa according to IEC 61215 (advanced test)

