



SOLON Black 300/10

High efficiency solar modules.

- › Recognized SOLON quality
- › Outstanding efficiencies
- › Back-contact cell technology
- › Optimal output over decades
- › Very good low light response
- › 25 year SOLON performance guarantee
- › SOLON solar insurance

SOLON Black 300/10 Distribution to German partners*

Technical features:

- Highly efficient back-contact cell technology
- Excellent module efficiency of up to 17.7 %
- Especially high power density for a high utilization of the roof area
- Lower installation effort per Wp
- 4 mm solar glass and twin-wall frame profile for highest load capacity
- Innovative SOLON connection technology for optimum heat dissipation

SOLON advantages:

- SOLON solar insurance for rooftop installations included**
- 25 year SOLON performance guarantee
- Individual consulting and support from our service team and our international distribution partners
- On time delivery
- Free module recycling
- Certified quality products (TÜV)

** Valid for Germany, Spain, Italy, Denmark, Poland, Czech Republic, Austria, Switzerland, France, Luxembourg, Belgium, Netherlands, Finland, Sweden

Electrical data – typical

Capacity rating (±3%)	P _{max}	300 Wp ***	295 Wp	290 Wp	285 Wp	280 Wp
Module efficiency		17.70%	17.40%	17.20%	16.90%	16.50%
Rated voltage	U _{mpp}	53.50 V	52.10 V	51.96 V	52.00 V	51.50 V
Rated current	I _{mpp}	5.61 A	5.66 A	5.60 A	5.51 A	5.43 A
Open circuit voltage	U _{oc}	64.20 V	63.80 V	64.20 V	64.20 V	63.70 V
Short circuit current	I _{sc}	6.10 A	6.10 A	6.10 A	6.10 A	6.00 A

The above values are effective for an irradiation of 1.000 W/m², AM 1.5, and a cell temperature of 25°C (standard test conditions). They are subject to production tolerances. The modules can be delivered with their characteristic data series which have to be used for the detailed system configuration.

Temperature coefficient

Tc of open circuit voltage	-0.29%/K
Tc of short circuit current	0.03%/K
Tc of power	-0.38%/K

Mechanical specification

Dimensions (H x W x D)	1,580 x 1,070 x 42 mm
Weight	23.5 kg (±1 kg)
Junction box	1 SOLON box ED II with 4 bypass diodes
Cable	Solar cable, 1,100 mm length, 4 mm ² , prefabricated with MC-3 plug
Front glass	White toughened safety glass, 4 mm
Solar cells	96 pcs. all-back contact Si 5" (125 x 125 mm)
Cell encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back site	White composite film
Frame	Anodised aluminium frame with twin-wall profile and drain holes

Permissible operating conditions

Temperature range	-40°C to +85°C
Maximum system voltage	1,000 V
Maximum surface load capacity	Tested up to 5,400 Pa according to IEC 61215 (advanced test)
Resistance against hail	Maximum diameter of 28 mm with impact speed of 86 km/h

Guarantees and certifications

Product warranty	2 years
Performance guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
Approvals and certificates	TÜV: IEC 61215 Edition II. IEC 61730

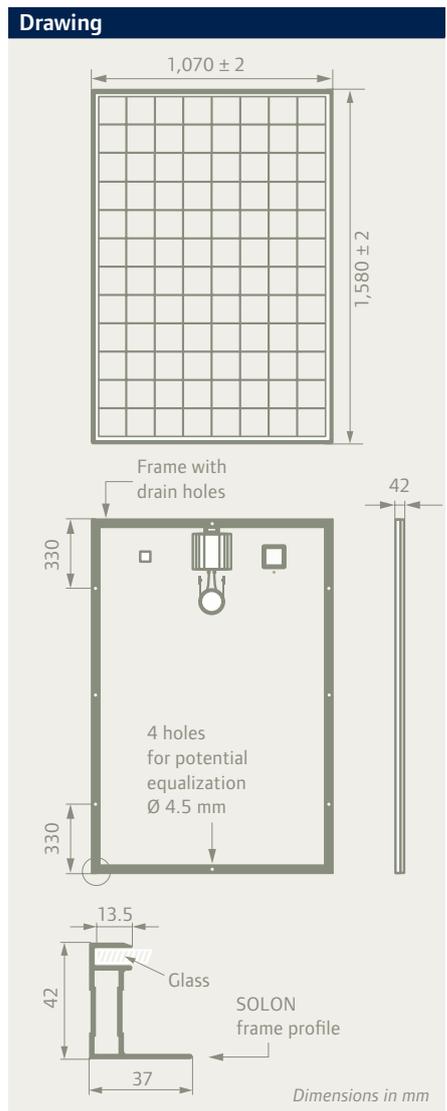
Modules must be used in systems where the positive (+) polarity of the PV field is connected to ground protected by a fuse. Please read and follow our recommendations for grounding.

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