



SOLON Blue 270/11

Polycrystalline solar modules.

- › Recognized SOLON quality
- › High-performance modules with excellent efficiency
- › Optimal output over decades with very good low light response
- › 10 year product guarantee,
25 year performance guarantee
- › SOLON solar insurance

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Technical features:

- Highly efficient polycrystalline cell technology
- Module efficiency of up to 14.1 %
- Excellent low light response
- 4 mm solar glass and twin-wall frame profile for highest load capacity

SOLON advantages:

- SOLON solar insurance for rooftop installations included⁽¹⁾
- 10 year product guarantee, 25 year 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)

Electrical data – typical

Capacity rating (±3 %)	P _{max}	280 Wp ⁽²⁾	275 Wp ⁽²⁾	270 Wp	265 Wp	260 Wp	255 Wp ⁽²⁾
Module efficiency		14.14 %	13.89 %	13.64 %	13.38 %	13.13 %	12.88 %
Rated voltage	U _{mpp}	35.95 V	35.70 V	35.45 V	35.18 V	34.91 V	34.65 V
Rated current	I _{mpp}	7.78 A	7.70 A	7.61 A	7.53 A	7.43 A	7.35 A
Open circuit voltage	U _{oc}	44.08 V	43.85 V	43.62 V	43.40 V	43.17 V	42.94 V
Short circuit current	I _{sc}	8.20 A	8.14 A	8.08 A	8.02 A	7.95 A	7.89 A

The above values are effective for an irradiation of 1,000 W/m², AM 1.5 and a cell temperature of 25°C according to STC. 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 coefficients (Tc)

Tc of open circuit voltage	-0.34 %/K
Tc of short circuit current	0.05 %/K
Tc of power	-0.42 %/K

Mechanical specification

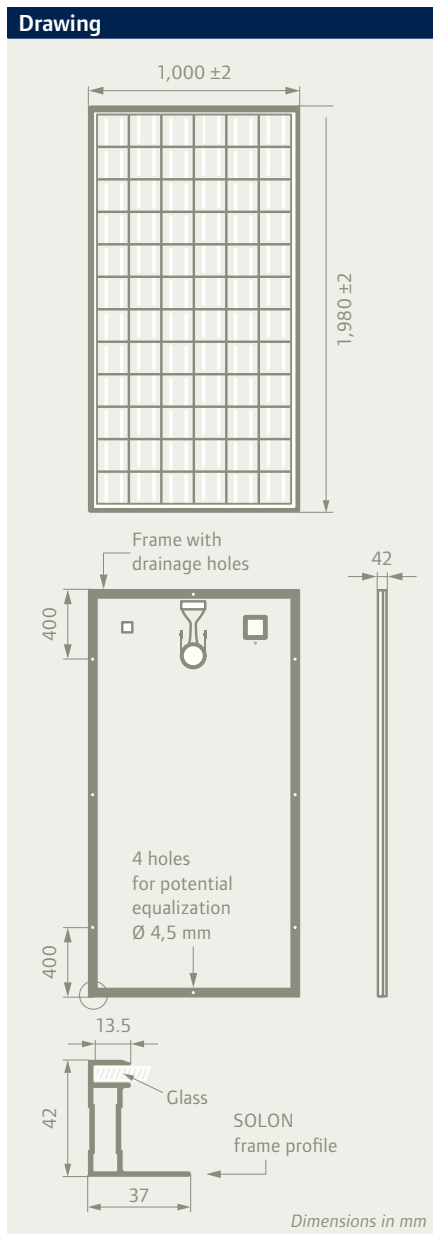
Dimensions (H x W x D)	1,980 x 1,000 x 42 mm
Weight	30 kg
Junction box	1 box with 3 bypass diodes
Cable	Solar cable, length 900 mm, 4 mm ² , connectors prefabricated with MC-4 plug
Application class	Class A at IEC 61730
Front glass	Transparent toughened safety glass, 4 mm
Solar cells	72 cells, polycrystalline Si 6.2" (156 x 156 mm)
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back side	Composite film
Frame	Anodized aluminium frame with twin-wall profile and drainage holes

Permissible operating conditions

Temperature range	-40°C to +85°C
NOCT	47°C ±2%
Maximum system voltage	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

Operating conditions

Product warranty	10 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 (incl. Safety Class II)



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