



SOLON Blue 270/09

Polycrystalline solar modules.

- › Recognized SOLON quality
- › High-performance modules with excellent efficiency
- › Highly efficient cell technologies provided by leading manufacturers
- › Optimal output over decades with very good low light response
- › 10 year product guarantee, 25 year performance guarantee
- › German design and products "Made in U.S.A."

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Technical details:

- Highly efficient polycrystalline solar module
- Module efficiency of up to 14.4 %
- Very good low light response
- 0.16 in. (4 mm) solar glass and twin-wall frame for highest load capacity
- Optimal heat dissipation technology

SOLON advantages:

- 10 year product guarantee, 25 year performance guarantee
- Individual consulting and support from our service team and our international distribution partners
- On time delivery
- Certified quality products (UL listed)
- Extensive manufacturing and development experience

Electrical specifications – typical

Capacity rating* (±3%)	P _{max}	285 Wp**	280 Wp	275 Wp	270 Wp	265 Wp	260 Wp
Module efficiency		14.39%	14.28%	13.88%	13.77%	13.38%	13.26%
Rated voltage	U _{mpp}	34.80 V	34.40 V	33.90 V	33.60 V	33.40 V	33.00 V
Rated current	I _{mpp}	8.20 A	8.15 A	8.10 A	8.05 A	7.95 A	7.90 A
Open circuit voltage	U _{oc}	42.80 V	42.50 V	42.20 V	41.50 V	41.20 V	41.00 V
Short circuit current	I _{sc}	9.05 A	8.95 A	8.85 A	8.75 A	8.70 A	8.65 A

The above values are effective for irradiation of 1,000 W/m², AM 1.5, and a cell temperature of 69.80°F (25°C) (standard test conditions). They are subject to production tolerances. The modules can be delivered with their characteristic data for the detailed system configuration.

Temperature coefficients

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

Mechanical specification

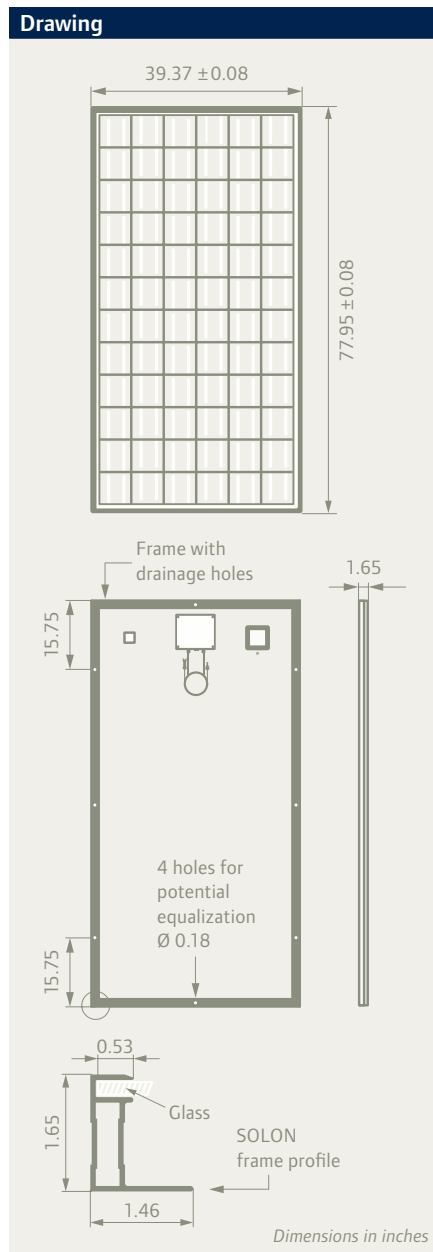
Dimensions (H x W x D)	77.95 x 39.37 x 1.65 in. (1,980 x 1,000 x 42 mm)
Weight	62.83 lbs (28.5 kg)
Junction box	1 Tyco junction box with bypass diodes
Cable	Solar cable, length 43.31 in. (1,100 mm), 12 AWG (4 mm ²), connectors prefabricated with Tyco plug
Front glass	Transparent toughened safety glass, 0.16 in. (4 mm)
Solar cells	72 cells polycrystalline Si 6.2", 6.14 x 6.14 in. (156 x 156 mm)
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back side	White composite film
Frame	Anodized aluminium frame with twin-wall profile and drainage holes

Operating conditions

Temperature range	-40°F to +185°F (-40°C to +85°C)
Maximum system voltage	600 V
Maximum surface load capacity	Tested up to 5,400 Pa according to IEC 61215 (advanced test)
Resistance against hail	Maximum diameter of 1.1 in. (28 mm) with impact speed of 53.44 mph (86 km/h)

Guarantees and certifications

Product warranty	10 years
Performance guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
Approvals and certificates	UL listed, CEC registered



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For more information on SOLON products please visit www.solon.com. We are glad to inform you personally as well.