



SOLON Blue 220/01

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."

SOLON Blue 220/01

Technical features:

- Highly efficient polycrystalline solar module
- Module efficiency of up to 14.6 %
- Excellent low light response
- 0.16 in. (4 mm) solar glass and twin-wall frame profile 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}	240 Wp**	230 Wp	220 Wp	210 Wp	200 Wp
Module efficiency		14.63 %	14.02 %	13.41 %	12.80 %	12.20 %
Rated voltage	U _{mpp}	29.45 V	29.00 V	28.75 V	28.25 V	27.75 V
Rated current	I _{mpp}	8.15 A	7.95 A	7.65 A	7.45 A	7.20 A
Open circuit voltage	U _{oc}	37.00 V	36.65 V	36.40 V	36.10 V	35.55 V
Short circuit current	I _{sc}	8.75 A	8.55 A	8.30 A	8.10 A	7.90 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)	64.57 x 39.37 x 1.65 in. (1,640 x 1,000 x 42 mm)
Weight	51.81 lbs (23.5 kg)
Junction box	1 Tyco junction box with bypass diodes
Cable	Solar cable, length 39.37 in. (1,000 mm), 12 AWG (4 mm ²), connectors prefabricated with Tyco plug
Front glass	Transparent toughened safety glass, 0.16 in. (4 mm)
Solar cells	60 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

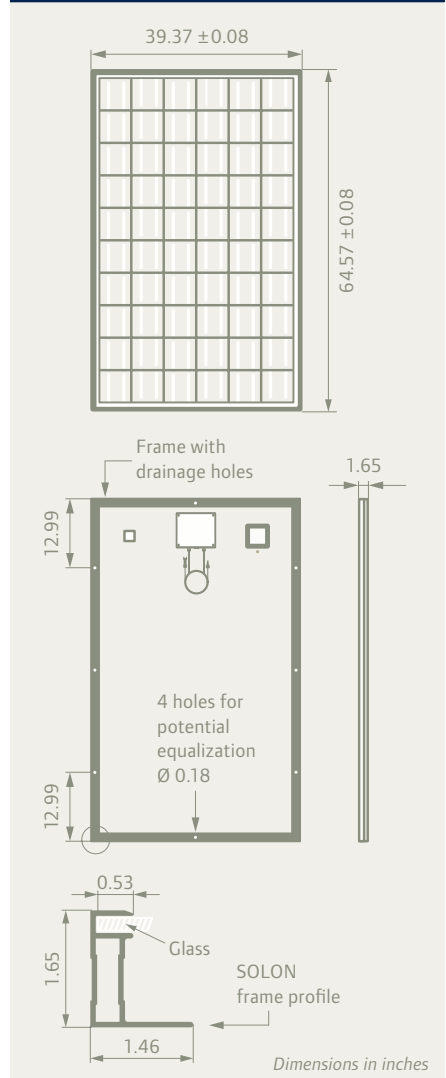
Operating conditions

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

Drawing



Your specialty retailer

SOLON Corporation
6950 S. Country Club Road
Tucson · AZ · 85756-7151 · USA

Phone +1 520 807-1300
Fax +1 520 807-4046
E-Mail solon.us@solon.com

SOLON SE
Am Studio 16
12489 Berlin · Germany

Phone +49 30 81879-0
Fax +49 30 81879-9999
E-Mail components@solon.com

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