



SOLON Blue 220/03

Polycrystalline solar modules.

- › Recognized SOLON quality
- › High-performance modules with excellent efficiency
- › Optimal output over decades
- › 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 14.3 %
- 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} | 235 Wp | 230 Wp | 225 Wp | 220 Wp | 215 Wp | 210 Wp |
|------------------------|------------------|---------|---------|---------|---------|---------|---------|
| Module efficiency | | 14.32 % | 14.02 % | 13.72 % | 13.41 % | 13.11 % | 12.80 % |
| Rated voltage | U _{mpp} | 29.76 V | 29.58 V | 29.40 V | 29.23 V | 29.05 V | 28.87 V |
| Rated current | I _{mpp} | 7.90 A | 7.78 A | 7.65 A | 7.53 A | 7.40 A | 7.28 A |
| Open circuit voltage | U _{oc} | 36.86 V | 36.69 V | 36.52 V | 36.35 V | 36.18 V | 36.00 V |
| Short circuit current | I _{sc} | 8.36 A | 8.24 A | 8.12 A | 8.00 A | 7.88 A | 7.77 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

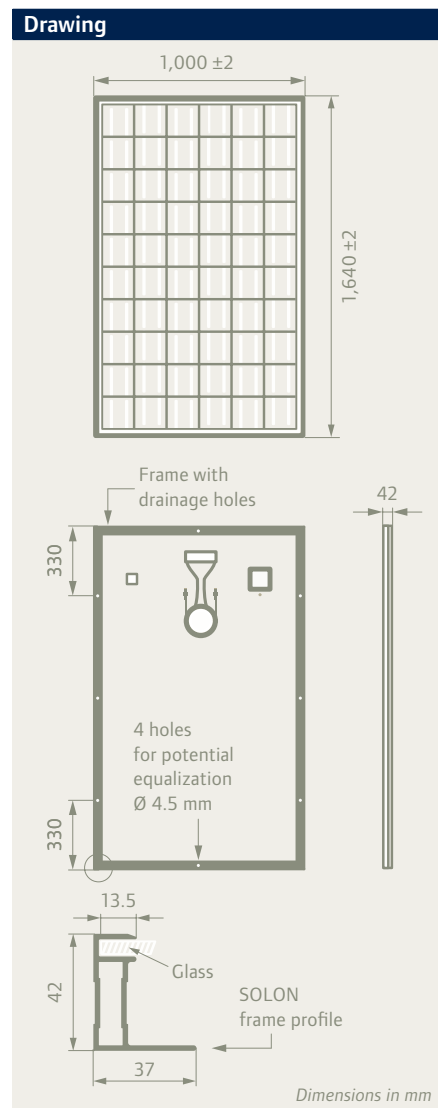
| | |
|------------------------|------------------------------------------------------------------------------|
| Dimensions (H x W x D) | 1,640 x 1,000 x 42 mm |
| Weight | 23.5 kg |
| Junction box | 1 junction box with 3 bypass diodes |
| Cable | Solar cable, 900 mm length, 4 mm ² , prefabricated with MC-3 plug |
| Application class | Class A at IEC 61730 |
| Front glass | Transparent toughened safety glass, 4 mm |
| Solar cells | 60 cells, polycrystalline Si 6.2" (156 x 156 mm) |
| Cell encapsulation | EVA (Ethylene Vinyl Acetate) |
| Back side | Composite film |
| Frame | Anodized aluminum frame with twin-wall profile and drainage holes |

Permissible operating conditions

| | |
|-------------------------------|--------------------------------------------------------------|
| Temperature range | -40°C to +85°C |
| NOCT | 47°C ±2°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 | 10 years |
| Performance guarantee | Guaranteed output of 95 % for 5 years, 90 % for 10 years, 87 % for 15 years, 83 % for 20 years and 80 % for 25 years |
| Approvals and certificates | TÜV: IEC 61215 Edition II, IEC 61730 (incl. Safety Class II) |



Your specialty retailer

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