

SOLON Black 280/09

High efficiency and output – monocrystalline 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
- > 25 year SOLON performance guarantee



SOLON Black 280/09 (M250/6+/01)

Technical details:

- · Highly efficient monocrystalline solar module
- Module efficiency of up to 14.8%
- · Very good low light response
- · 4 mm solar glass and twin-wall frame profile for highest load capacity
- · Optimal heat dissipation technology

SOLON advantages:

- · 25 year SOLON performance quarantee
- · Individual and professional consulting and support by our SOLON service team and international distribution partners
- · On time deliveries
- Certified quality products (UL listed)
- Extensive manufacturing and development experience

Electrical specifications – typical

| Capacity rating* (± 3 %) | Pn | 290 Wp | 280 Wp | 270 Wp | 260 Wp | 250 Wp |
|--------------------------|------|---------|---------|---------|---------|---------|
| Module efficiency | | 14.79 % | 14.28 % | 13.77 % | 13.26 % | 12.75 % |
| Rated voltage | Umpp | 35.10 V | 34.40 V | 33.60 V | 33.00 V | 32.50 V |
| Rated current | Impp | 8.25 A | 8.15 V | 8.05 A | 7.90 A | 7.70 A |
| Open circuit voltage | Uoc | 43.10 V | 42.50 V | 41.50 V | 41.00 V | 40.50 V |
| Short circuit current | Isc | 9.10 A | 8.95 A | 8.75 A | 8.65 A | 8.30 A |

The above values are effective for 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 for the detailed system configuration.

Temperature coefficient

| Tk of open circuit voltage | -0.33 %/K |
|-----------------------------|-----------|
| Tk of short circuit current | 0.03 %/K |
| Tk of power | -0.43 %/K |

Mechanical specification

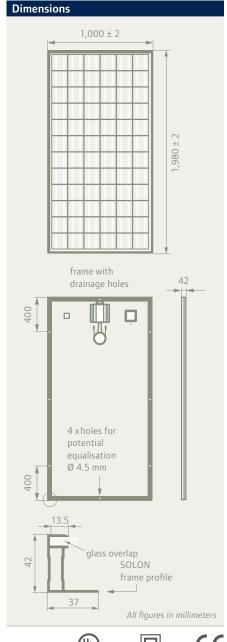
| Dimensions (HxWxD) | 1,980 x 1,000 x 42 mm |
|--------------------|---|
| Weight | 28,5 kg |
| Junction box | 1 Tyco junction box with bypass diodes v |
| Cable | Solar cable, length 1,100 mm, 4 mm ² , connectors prefabricated with Tyco plug |
| Front glass | White toughened safety glass, 4 mm |
| Solar cells | 72 pcs. monocrystalline 3 BB Si 6.2 " (156 mm x 156 mm) |
| Cell encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back site | White composite film |
| Frame | Anodised aluminium frame with twin-wall profile and drainage holes |
| | |

Operating conditions

| Temperature range | -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 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 | UL listed, CEC registered |









Your retailer

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