

Solar module with textured POLY cells

High-quality crystalline solar cells ensure maximum energy yield. SCHOTT Solar modules have been awarded top ratings in a number of independent studies and surveys. Every module type is designed – from frame to connection box – for cost-effective system integration.

Narrow output tolerance: A very narrow module output selection permits serial connection with low connection losses.

Quick and easy installation: The anodized aluminum frame and the preinstalled cable with Tyco-Connectors ensure quick and easy installation.

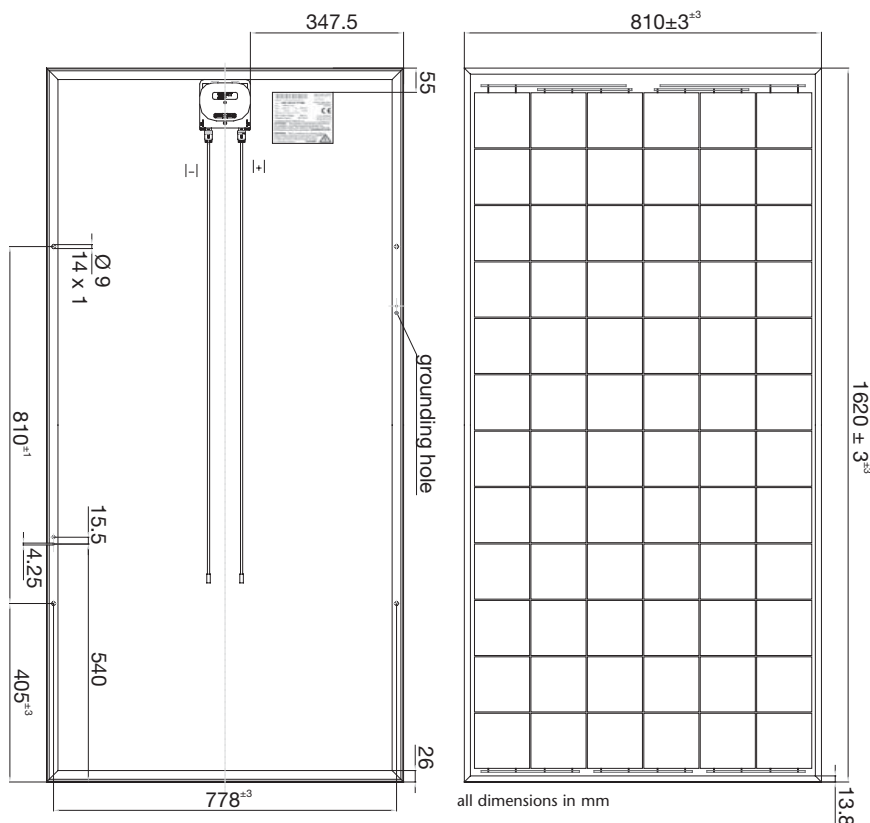
System voltage up to 860 V: The Safety Class II module is configured for system voltage of up to 860 V. It is suitable for grid-connected systems.

One step ahead: The special SCHOTT Solar cell technology with isotexturing using multicrystalline wafers ensures optimum output and efficiency.

- Narrow output tolerance
- Quick and easy installation
- System voltage up to 860 V
- One step ahead
- Higher performance/more efficiency



SCHOTT POLY™ 165/170/175



SCHOTT
solar

Technical Data

Electrical data

The electrical data apply to standard test conditions (STC):

Irradiance at the module level of 1.000 W/m² with spectrum AM 1.5 and a cell temperature of 25 °C.



| | | | | |
|--------------------------------|------------------|--------|--------|--------|
| Nominal power | P _{nom} | 165 Wp | 170 Wp | 175 Wp |
| Voltage at maximum-power point | U _{mpp} | 35.1 V | 35.5 V | 35.9 V |
| Current at maximum-power point | I _{mpp} | 4.70 A | 4.78 A | 4.87 A |
| Open-circuit voltage | U _{oc} | 43.6 V | 44.0 V | 44.3 V |
| Short-circuit current | I _{sc} | 5.27 A | 5.30 A | 5.34 A |

The rated power may vary by ± 4% and all other electrical parameters by ± 10%.

Dimensions and weights



| | |
|--------------------------------|-------------------|
| Dimensions (tolerances ± 3 mm) | 1,620 mm x 810 mm |
| Thickness with frame (± 1 mm) | 50 mm |
| Weight | approx. 15.5 kg |

Characteristic data



| | |
|------------------------|--|
| Solar cells per module | 72 |
| Type of solar cell | MAIN-isotex solar cell (multi-crystalline, 12.5 x 12.5 cm ² , full-square) |
| Connection | Connection box with bypass diodes, 4 mm ² -solar cable with Tyco- Connectors, length of pole 1 m each |

Temperature coefficients



| | | |
|-----------------------|-----------------------------------|-------------|
| Power | T _K (P _n) | - 0.47 %/°C |
| Open-circuit voltage | T _K (U _{oc}) | - 0.38 %/°C |
| Short-circuit current | T _K (I _{sc}) | + 0.10 %/°C |

Limits



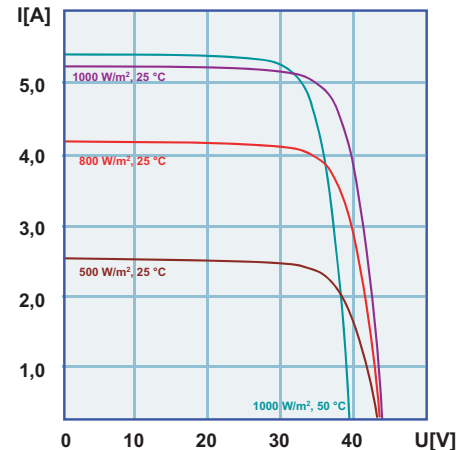
| | |
|------------------------------|--|
| Max. system voltage | 860 V _{DC} |
| Operating module temperature | -40 ... +90 °C |
| Max. load | Pressure: 5,400 N/m ² or 550 kg/m ² (IEC 61215 Ed. 2) Suction: 5,400 N/m ² or 550 kg/m ² |

The right is reserved to make technical modifications.

Qualifications



The SCHOTT POLY™ 165/170/175 complies with the requirements of IEC 61215, Electrical Protection Class II and the EWG guideline 89/392 (CE).



Current/voltage characteristics with dependence on irradiance and module-temperature.



MANAGEMENTSYSTEM
Certified by DQS according to
DIN EN ISO 9001:2000 · Reg.-No. 2184
DIN EN ISO 14001:1996 · Reg.-No. 2184