



SOL_GT BLACK

Module with monocrystalline cells,
black frame and black backsheet

Since 1996, we have been developing and manufacturing high-grade photovoltaic modules for building integration and conventional uses. The roots of the company go very far back: The company founders came from AEG-Solartechnik, which had already constructed one of the first PV production lines by the 1980s.

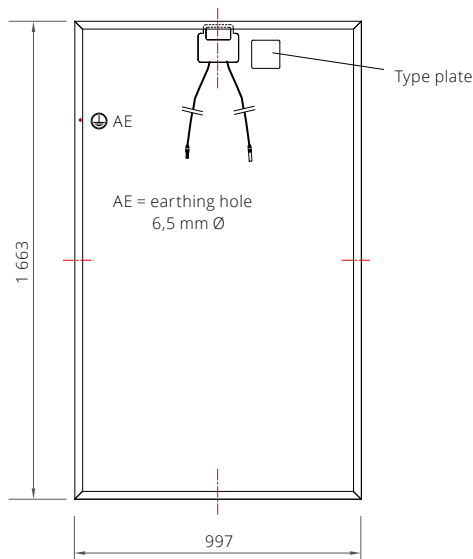
Our decades of experience allow us to achieve high standards in our work and ensure the reliability, performance and a consistent high quality for each individual module.

As a result, our customers reap the benefits, in particular from higher expected yields.

- * Front glass with special anti-reflection coating
- * Only positive performance tolerances
- * High-grade materials and strict quality controls

TYPES AND ELECTRICAL DATA¹

Name	Isc (A)	Impp (A)	Uoc (V)	Umpp (V)	Pmpp (W)	Tolerance (W)
SOL 278 GT BLACK	9,44	8,82	39,40	31,50	278	0/+5,99
SOL 284 GT BLACK	9,48	8,89	39,80	32,00	284	0/+5,99
SOL 290 GT BLACK	9,55	8,93	40,20	32,50	290	0/+5,99



DIMENSIONS AND WEIGHT

Width x height²: 997 mm x 1 663 mm
 Thickness including frame³: 39 mm
 Weight: approx. 19 kg

STRUCTURE

Front: 3,2 mm toughened white glass with anti-reflection coating
 Back: black backsheet
 Cell size: 156 mm x 156 mm
 Layout: 60 almost-square monocrystalline solar cells
 Frame: Aluminum, black anodized
 Bypass diodes: 3 pcs. (in junction box)

TEMPERATURE COEFFICIENTS

Output: -0,410 %/K
 Open circuit voltage: -0,320 %/K
 Short-circuit current: +0,050 %/K

CONNECTION

Junction box: IP65 with integrated bypass diodes
 Cable: 4 mm² cross section approx. 1 m in length incl. plug
 Plug: IP67 in plugged state, lockable

ELECTRICAL PARAMETERS

NOCT⁴: 44,8 ± 2 °C
 At lower radiation intensities (200 W/m²), 97% of the STC module efficiency is achieved.

THRESHOLD VALUES

Maximum system voltage: 1 000 V_{DC}
 Reverse current load capacity: 16 A
 Permissible operating temperature: -40 °C to +90 °C
 Max. load⁵: 5 400 Pa



Additional information:
www.solarnova.de

¹ Typical values under standard test conditions (STC):
 1 000 W/m² irradiation at the module level,
 Spectrum AM 1,5 and 25 °C cell temperature
 Power measurement tolerance (Pmax): ±3,5%

² Tolerance: ±3 mm

³ Tolerance: ±1 mm

⁴ Normal operating cell temperature (NOCT)

⁵ Maximum load in accordance with IEC 61215



Quality management system
 certified in accordance with ISO
 9001:2008

The current solarnova warranty conditions apply at the time of installation. Professional assembly in accordance with the applicable installation instructions is required for warranty to apply.
 Errors and changes expected. © solarnova 06/2017

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