



# PHOTOVOLTAIC MODULE SOL\_GT BLACK FRAMED

with monocrystalline solar cells



- first-class quality in accordance with ISO 9001:2008 quality management system
- more than 30 years of experience in solar panel design and production
- positive performance tolerance of up to +6 Watt
- higher yield due to special antireflective coated front glass
- great stability based on 4 mm hardened front glass
- high system voltage up to 1000 V<sub>DC</sub>
- 5 400 Pa proven load bearing capacity
- 25 years performance guarantee\*
- 10 years product guarantee\*

## TYPES AND ELECTRICAL DATA

Name	Isc (A)	Impp (A)	Uoc (V)	Umpp (V)	Pmax (W)
SOL 272 GT bf	9,12	8,60	39,00	31,70	272
SOL 278 GT bf	9,24	8,75	39,50	31,80	278
SOL 284 GT bf	9,36	8,89	39,80	31,95	284

Electrical data measured at standard test conditions (STC):  
1000 W/m<sup>2</sup> irradiance at module level, spectrum AM 1,5 and 25 °C cell temperature.  
positive performance tolerance: +6 watt, measuring tolerance: ±3,5 %

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## CELL TEMPERATURE COEFFICIENTS

power: -0,43 %/K  
 open circuit voltage: -0,34 %/K  
 short circuit current: +0,05 %/K

## DIMENSIONS

width x height: 997 mm x 1663 mm  
 (tolerance  $\pm 3$  mm)  
 thickness (framed): 39 mm (tolerance  $\pm 1$  mm)  
 weight: approx. 22 kg

## ASSEMBLY

front: 4 mm toughened safety glass extra white with antireflective coating  
 rear: white back sheet  
 cell size: 156 mm x 156 mm  
 arrangement: 60 quasi quadratic monocrystalline solar cells  
 frame: aluminium black anodised

## ELECTRIC INTERFACE

connection box with bypass diodes, IP65  
 cable: approx. 1,0 m incl. connector, 1x 4 mm<sup>2</sup> solar cable with lockable connector, IP67 in connected state.

## LIMITS

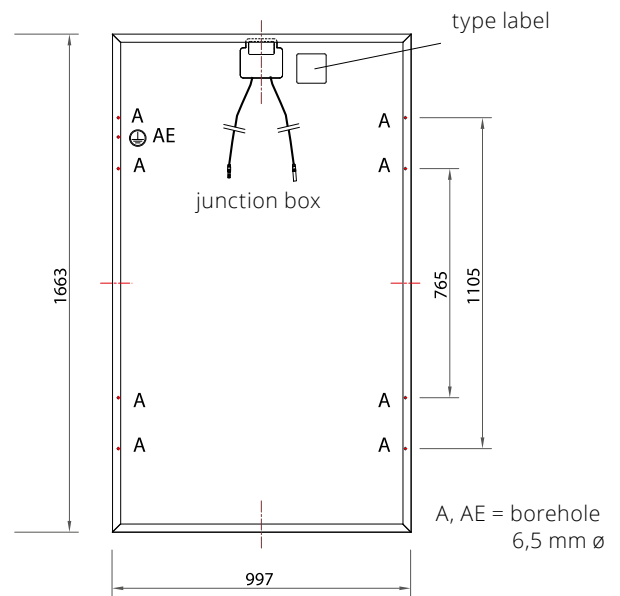
max. system voltage: 1000 V<sub>DC</sub>  
 reverse current capacity: 16 A  
 allowable working temperature: -40 °C to +90 °C  
 max. load: up to 5 400 Pa

## ELECTRICAL DATA

NOCT (normal operating cell temperature): 44,8 °C  
 At low radiation intensities (200 W/m<sup>2</sup>)  
 97 % of the STC-efficiency is achieved.

## QUALITY

This module type meets the requirements of IEC 61215, IEC 611730 (protection class II), IP 65 and CE.



\* The solarnova warranty conditions apply in the valid version at the time of installation. These conditions are only valid when the relevant product is installed in accordance with the applicable installation instructions. Subject to modifications that represent process.



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**CERTIFIED**

quality management certified to  
 the standard DIN EN ISO 9001:2008