

## Solar module with MAIN cells



ASE-275-DG-FT/MC

**Module type key:**

DG = double glass

F = framed

T = Thermoplastic cell embedding

MC = MAIN cell

SCHOTT Solar produces high-performance modules in energy output classes 50 Wp and higher. High-quality crystalline EFG and MAIN cells ensure maximum energy yield. These 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
- Long-term stability
- System voltage up to 1000 V
- Quick and easy installation
- One step ahead



Tyco-Connectors, aluminum frame with added mounting groove for quick and easy installation



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

**Long-term stability:** The full-square cells are embedded in hardened double glass. A specially developed encapsulant ensures long-term stability, even under extreme climatic conditions.

**System voltage up to 1000 V:** The Safety Class II module is configured for system voltage of up to 1000 V. It is suitable for grid-connected systems.

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

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

# Technical Data

## Electrical data

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

Irradiance at the module level of 1.000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25 °C.



Nominal power	P <sub>nom</sub>	265 Wp	274 Wp	283 Wp
Voltage at maximum-power point	U <sub>mpp</sub>	56.7 V	57.4 V	58.2 V
Current at maximum-power point	I <sub>mpp</sub>	4.68 A	4.78 A	4.87 A
Open-circuit voltage	U <sub>oc</sub>	70.9 V	71.5 V	72.3 V
Short-circuit current	I <sub>sc</sub>	5.13 A	5.23 A	5.33 A

The rated power may vary by ± 5% and all other electrical parameters by ±10%.

## Dimensions and weights

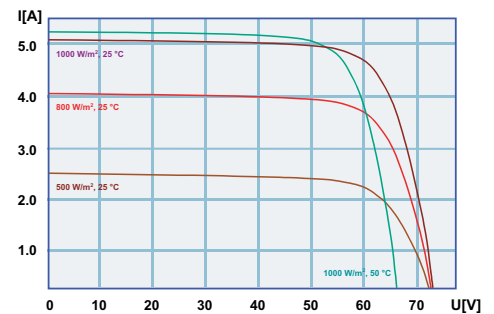


Dimensions (tolerances + 4/- 1 mm)	1605 x 1336 mm <sup>2</sup>
Thickness (tolerances ± 1 mm)	approx. 50 mm
Weight	approx. 41 kg

## Characteristic data



Solar cells per module	120
Type of solar cell	MAIN solar cell (multi-crystalline, 12.5 x 12.5 cm <sup>2</sup> , full-square)
Connection	Connection box with bypass diodes, Tyco-Connectors, 4 mm <sup>2</sup> -solar cable, length of poles: (-) 1.1 m, (+) 1.4 m



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

## Temperature coefficients



Power	T <sub>K</sub> (P <sub>n</sub> )	- 0.47 % / °C
Open-circuit voltage	T <sub>K</sub> (U <sub>oc</sub> )	- 0.38 % / °C
Short-circuit current	T <sub>K</sub> (I <sub>sc</sub> )	+ 0.10 % / °C

## Limits



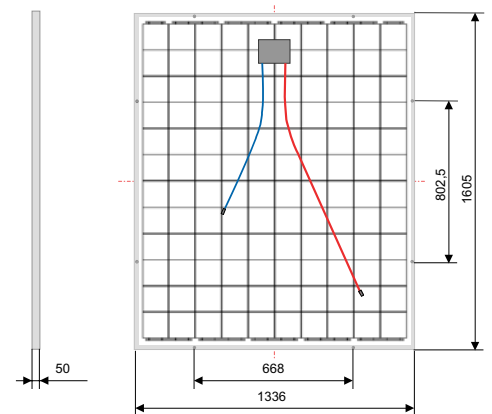
Max. system voltage	1000 V <sub>DC</sub>
Operating module temperature	-40... +90 °C
Max. load	5400 N/m <sup>2</sup> or 551 kg/m <sup>2</sup> (IEC 61215)

The right is reserved to make technical modifications.

## Qualifications



The ASE-275-DG-FT/MC complies with the requirements of IEC 61215, Electrical Protection Class II and the EWG guideline 89/392 (CE).



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

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