

Solar module with MAIN cells



ASE-275-DG-FT/MC

Module type key:

DG = double glass

F = framed

T = Thermoplastic cell embedding

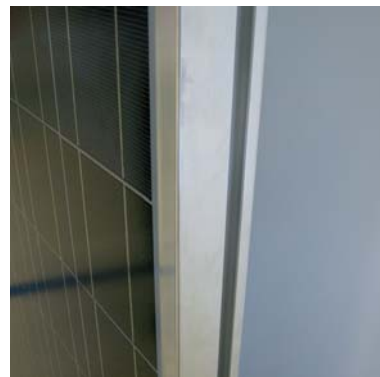
MC = MAIN cell

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/m² with spectrum AM 1.5 and a cell temperature of 25 °C.



Nominal power	P _{nom}	265 Wp	274 Wp	283 Wp
Voltage at maximum-power point	U _{mpp}	56.7 V	57.4 V	58.2 V
Current at maximum-power point	I _{mpp}	4.68 A	4.78 A	4.87 A
Open-circuit voltage	U _{oc}	70.9 V	71.5 V	72.3 V
Short-circuit current	I _{sc}	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

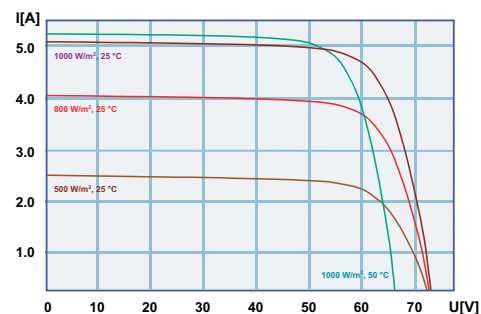


Dimensions (tolerances + 4/- 1 mm)	1605 x 1336 mm ²
Thickness (tolerances ± 1 mm)	approx. 50 mm
Weight	approx. 41 kg

Characteristic data



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



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

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



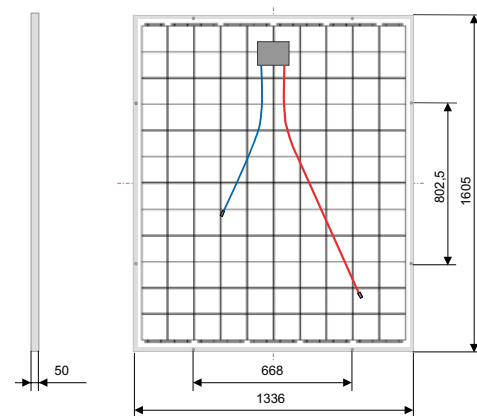
Max. system voltage	1000 V _{DC}
Operating module temperature	-40... +90 °C
Max. load	5400 N/m ² or 551 kg/m ² (IEC 61215)

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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