

Solar module with EFG cells



ASE-260-DG-FT

Module type key:

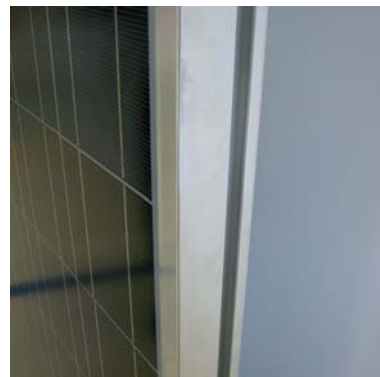
DG = Double Glass

F = Framed

T = Thermoplastic cell embedding

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
- EFG-Technology



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 manufactured using the EFG process and 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 self-supporting design with an anodized aluminum frame ensures quick and easy installation on standard mounting frames. Suitable for both stand-alone applications and large-scale systems.

EFG-Technology: The patented EFG-Technology employed by SCHOTT Solar provides for highly economical wafer-production and low raw-material consumption.

Technical Data

Design and Mechanical 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}	250 Wp	260 Wp	268 Wp
Voltage at maximum-power point	U _{mpp}	57.1 V	57.1 V	57.2 V
Current at maximum-power point	I _{mpp}	4.37 A	4.55 A	4.69 A
Open-circuit voltage	U _{oc}	70.4 V	70.9 V	71.4 V
Short-circuit current	I _{sc}	4.78 A	4.91 A	5.00 A

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

Dimensions and weights



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

Characteristic data



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

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



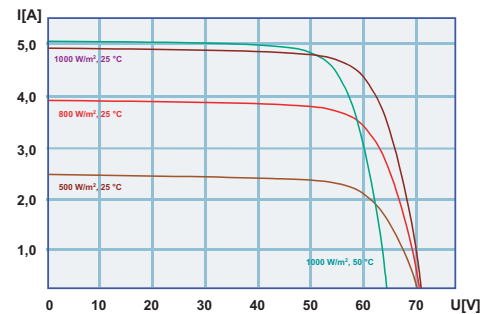
Max. system voltage	1000 V _{DC}
Operating module temperature	-40... +90 °C
Max. load	5400 N/m ² or 551 kg/m ² (IEC 61215)

The right is reserved to make technical modifications.

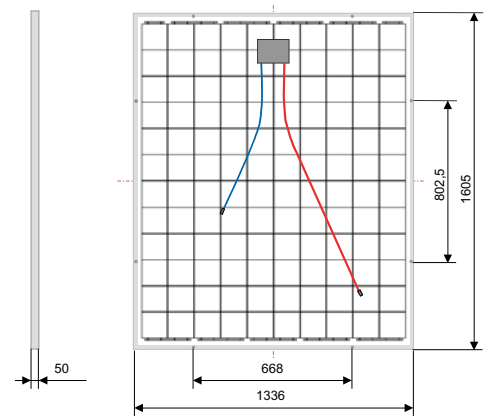
Qualifications



The ASE-260-DG-FT 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

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