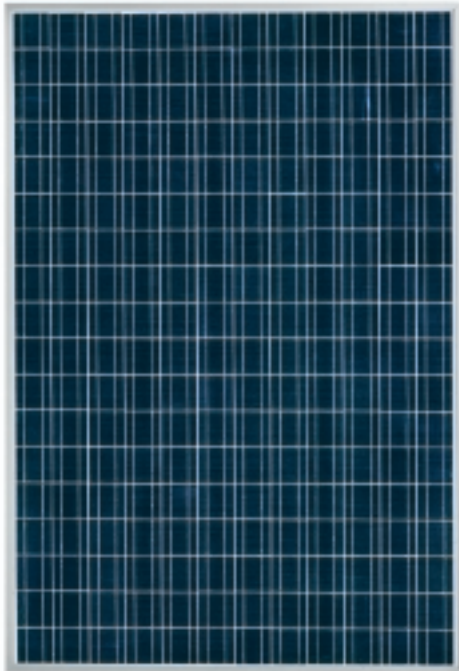
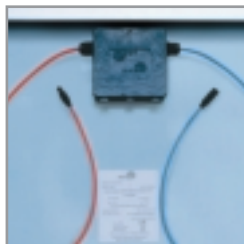


Extra-large module with EFG cells

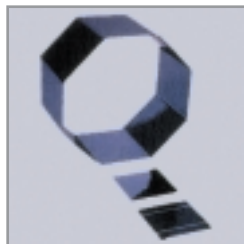


ASE-300-DG-FT

Module type key:
 DG = dual-pane glass
 F = framed
 T = Thermoplastic cell embedding



Connection box ASE-300-DG-FT with bypass diodes, Suhner solar cables and MC²-Connectors.



Crystalline Si tubes are drawn as octagons from the molten mass, thus eliminating cutting loss

- Largest standard module
- Quick and easy installation
- Long-term stability
- Tested as Best Module from "Stiftung Warentest"
- EFG-Technology

Largest standard module: With a module surface area of 2.4 m², the ASE-300-DG-FT module from RWE SCHOTT Solar is the largest standard module available on the market today.

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.

Long-term stability: The full-square cells are manufactured using the EFG process and embedded in hardened dual-pane glass. A specially developed encapsulant ensures long-term stability, even under extreme climatic conditions.

Tested as Best Module: In September 1999, "Stiftung Warentest" published this module with a test result of 1.8. The tested RWE SCHOTT Solar module was the only module with a score less than 2.0.

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

RWE 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.

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}	285 Wp	300 Wp	315 Wp
Voltage at maximum-power point	U_{mpp}	50.5 V	51.2 V	51.7 V
Current at maximum-power point	I_{mpp}	5.64 A	5.9 A	6.1 A
Open-circuit voltage	U_{oc}	60 V	60 V	64.5 V
Short-circuit current	I_{sc}	6.2 A	6.4 A	6.7 A

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

Dimensions and weights



Area	2.42 m ²
Dimensions (tolerances ± 4 mm)	1.892 x 1.283 mm ²
Thickness with frame (± 2 mm)	50.8 mm
Weight	approx. 50 kg

Characteristic data



Solar cells per module	216
Type of solar cell	EFG solar cells (multi-crystalline, 10 x 10 cm ² full-square)
Connections	Connection box with bypass diodes, MC [®] -Connectors with cable (4 mm ² , Suhner RADOX 125 A, length of both poles 160 cm).

Cell 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



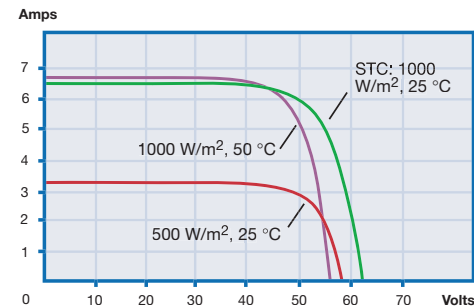
Max. system voltage	1000 V _{DC}
Operating module temperature	-40... +90 °C
Storm resistance	Wind speed of 130 km/h \triangleq 800 Pa and safety factor of 3

The right is reserved to make technical modifications.

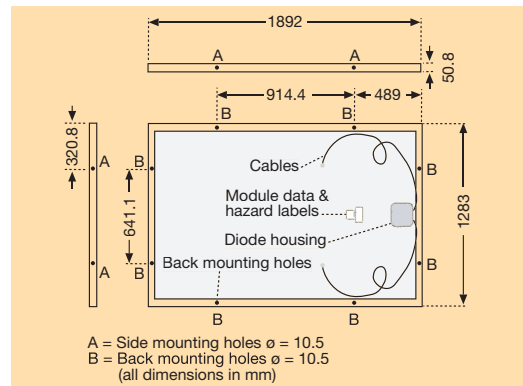
Qualifications



The ASE-300-DG-FT Module complies with the requirements of IEC 61215, NREL IQT, UL-1703 (USA) Fire Class A, Electrical Protection Class II and the EU guidelines, e.g. EMC according to DIN EN.



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



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