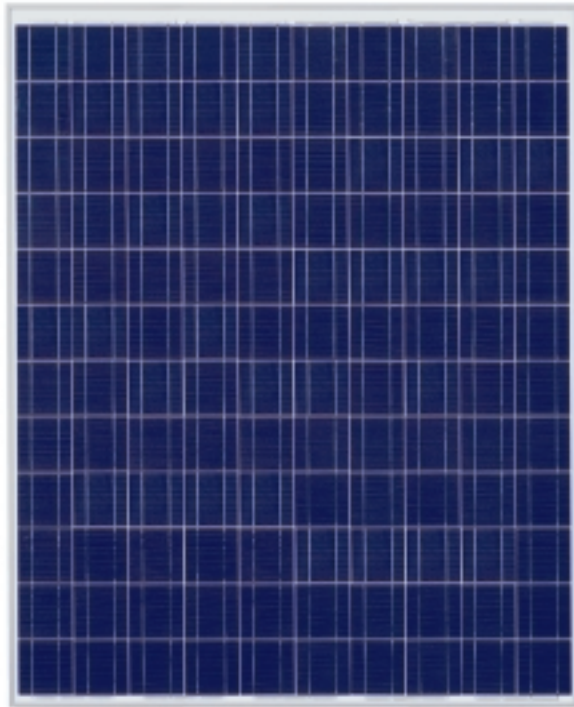


Solar module with EFG cells



ASE-160-GT-FT

Module type key:

G = Glass

T = Tedlar

F = Frame

T = Thermoplastic cell embedding



Tyco-Connectors

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.

- Narrow output tolerance
- Quick and easy installation
- System voltage up to 750 V
- EFG-Technology

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

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

System voltage up to 750 V: The Safety Class II module is configured for system voltage of up to 750 V. It is suitable for grid-connected systems.

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

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}	150 Wp	155 Wp	160 Wp	165 Wp
Voltage at maximum-power point	U_{mpp}	56.5 V	56.7 V	56.9 V	57.0 V
Current at maximum-power point	I_{mpp}	2.65 A	2.73 A	2.81 A	2.90 A
Open-circuit voltage	U_{oc}	69.4 V	69.6 V	70.4 V	70.5 V
Short-circuit current	I_{sc}	3.03 A	3.08 A	3.13 A	3.20 A

The rated power may only vary by $\pm 5\%$ and all other electrical parameters by $\pm 10\%$.

Dimensions and weights



Dimensions (tolerances ± 2 mm)	1.282 mm x 1.070 mm
Thickness with frame (tolerances ± 1 mm)	50 mm
Weight	19.2 kg

Characteristic data



Solar cells per module	120
Type of solar cell	EFG solar cell (multi-crystalline, 10 cm x 10 cm, full-square)
Connection	Connection buttons, five bypass diodes, 4 mm ² -solar cable, Tyco-Connectors, length of pole: 1 m each

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



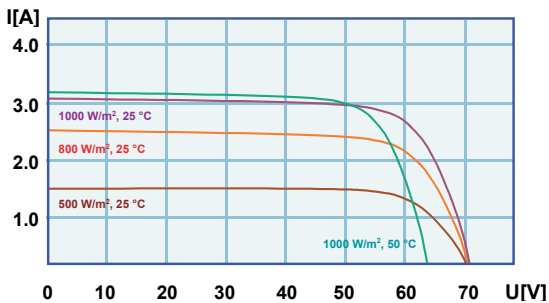
Max. system voltage	750 V _{DC}
Operating module temperature	-40... +90 °C
Storm resistance	Windgeschwindigkeit 130 km/h \triangleq 800 Pa und Sicherheitsfaktor 3

The right is reserved to make technical modifications.

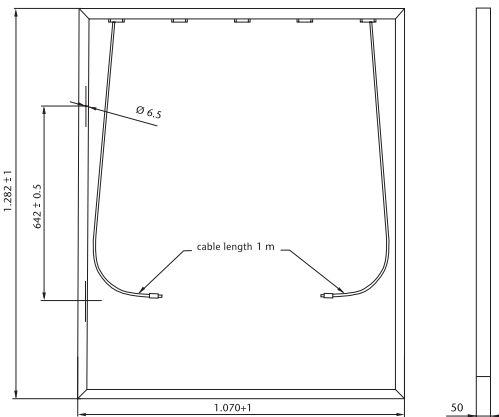
Qualifications



The ASE-160-GT-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.



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