

Solar module with EFG cells



ASE-50-ETF/17

Module type key:

E = EVA
T = Tedlar
F = framed

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.

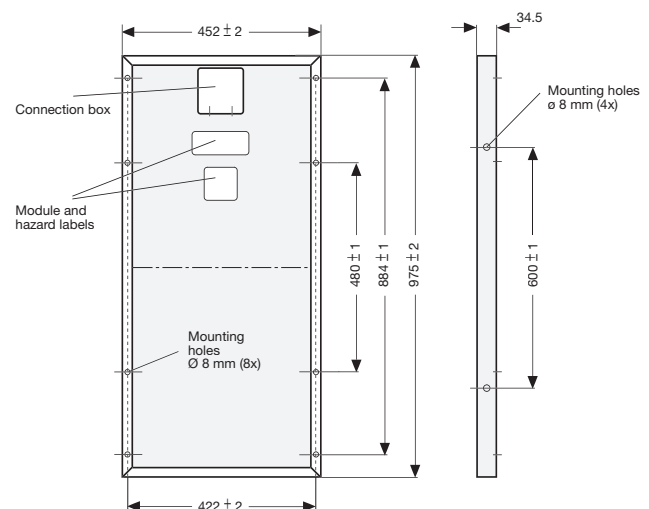
Narrow output tolerance: A very narrow module output selection permits serial connection with low connection losses.

Long-term stability: The module developed by RWE SCHOTT Solar meets the latest technical standards. The use of state-of-the-art materials ensure long service life, even under extreme climatic conditions.

- Narrow output tolerance
- Long-term stability
- Allround module
- EFG-Technology

Allround module: The module is easy to handle, robust and suitable for a broad range of applications. Module dimensions of 975 mm x 452 mm provide for simple expansion of existing systems. The module is delivered with an anodized aluminum frame with four mounting holes on the outside of the frame.

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}	50 Wp	45 Wp
Voltage at maximum-power point	U_{mpp}	17.2 V	17.0 V
Current at maximum-power point	I_{mpp}	2.9 A	2.65 A
Open-circuit voltage	U_{oc}	20 V	20 V
Short-circuit current	I_{sc}	3.2 A	2.9 A

All electrical data \pm 10%.

Dimensions and weights



Dimensions (tolerances \pm 2 mm)	975 x 452 mm ²
Thickness with frame	34.5 mm
Weight	approx. 6.1 kg

Characteristic data



Solar cells per module	36
Type of solar cell	EFG solar cell (multi-crystalline, 10 x 10 cm ² , full-square)
Connection	Connection box with screw terminals and two bypass diodes
Cable Entry	Prepared for cable glands (M12)

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



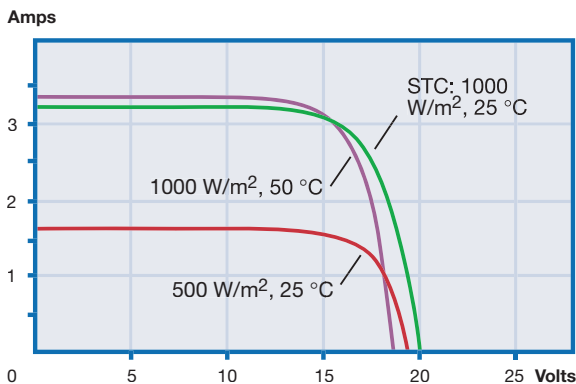
Max. system voltage	600 V _{DC}
Operating module temperature	- 40... + 90 °C
Storm resistance	Wind speed of 130 km/h Δ 800 Pa and safety factor of 3

The right is reserved to make technical modifications.

Qualifications



The ASE-50-ETF/17 module complies with the requirements of IEC 61215 and the EWG guideline 89/392 (CE).



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

RWE SCHOTT Solar GmbH

Carl-Zeiss-Str. 4

63755 Alzenau

P +49(0)60 23 /91-05

F +49(0)60 23 /91-17 00

E sales@rweschottsolar.com

I www.rweschottsolar.com

