

Double glazed module with POLY cells

Technical Data*

Data at standard test conditions (STC)*

Module type		SCHOTT POLY® 175	SCHOTT POLY® 180	SCHOTT POLY® 185
Nominal power [Wp]	P_{mpp}	≥ 175	≥ 180	≥ 185
Voltage at nominal power [V]	U_{mpp}	23.31	23.66	23.79
Current at nominal power [A]	I_{mpp}	7.51	7.61	7.78
Open-circuit voltage [V]	U_{oc}	27.96	28.38	28.53
Short-circuit current [A]	I_{sc}	7.95	8.05	8.23
Module efficiency (%)	η	13.05	13.42	13.80

STC (1,000 W/m², AM 1.5, cell temperature 25°C)

Power tolerance (as measured by flasher): -0 W / +4.99 W

Data at low irradiation

At a low irradiation intensity of 200 W/m² (AM 1.5 and cell temperature 25 °C) 96 % of the STC module efficiency (1,000 W/m²) will be achieved.

Temperature coefficient

Nominal power [%/K]	P_{mpp}	-0.43
Open-circuit voltage [%/K]	U_{oc}	-0.32
Short-circuit current [%/K]	I_{sc}	+0.05

Characteristic data

Solar cells per module	48
Cell type	polycrystalline, 156 mm x 156 mm
Junction box Connector	IP65 with 3 bypass diodes
Connector	Tyco connector IP67
Dimensions junction box [mm]	110 x 115 x 25
Front panel	thermally treated float glass 3.2 mm
Backside panel	hardened back glass
Frame material	aluminium, black

Dimensions and weight

Dimensions [mm]	1,350 x 993
Thickness [mm]	50
Weight [kg]	24

Limits

Maximum system voltage [V _{DC}]	1,000
Maximum reverse current I_R [A]**	20
Operating module temperature [°C]	-40 ... +85
Maximum load (to IEC 61215 ed. 2)	Pressure: 5,400 N/m ² or 550 kg/m ² Suction: 5,400 N/m ² or 550 kg/m ²
Application classification (to IEC 61730)	A
Fire classification (to IEC 61730)	A

** No external voltage in excess of U_{oc} shall be applied to the module.

Permissions and certifications

The modules are certified to IEC 61215 ed. 2 and IEC 61730, Electrical Protection Class II and the CE-guidelines. Moreover SCHOTT Solar is certified and registered to ISO 9001 and ISO 14001.

Power measurement accuracy ± 4 %.

The **installation manual** additional information on installation and operation. SCHOTT Solar AG reserves the right to make specification changes in this datasheet without notice. All information complies with the requirements of the standard EN 50380.

* Preliminary data sheet

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