SCHOTT PERFORM[™] POLY series



The global German company SCHOTT Solar started developing and manufacturing components for the solar industry in 1958.

Double the required standard: SCHOTT Solar tests its modules for twice as long as required by the IEC.

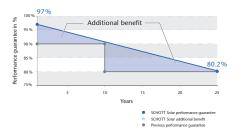
High resistance to mechanical loads: The solid anodised aluminium frame ensures superior torsional resistance. SCHOTT Solar polycrystalline modules are also tested to extreme pressure and suction loads of 5,400 Pa – which equates to 550 kg per square metre and a reassuring level of security for your investment.

High performance output: All SCHOTT Solar polycrystalline modules achieve a positive tolerance of their nominal power rating. This ensures a stable high-energy output.

Increased resistance to reverse current: SCHOTT Solar polycrystalline modules have a high resistance to reverse current, minimising associated wiring costs.

Improved temperature coefficient: The improved temperature coefficient of the modules results in increased module efficiencies at high ambient temperatures.

25 years linear performance guarantee*: SCHOTT Solar guarantees for a period of one year from date of delivery that the module power output will be at least 97 % of the rated power output. Due to its long and successful experience in solar technology, the manufacturer guarantees from year two through year twenty five that the module power output will degrade no more than 0.7 % per year of the rated power output from the date of original sale by SCHOTT Solar. Moreover, SCHOTT Solar offers a product warranty of 10 years.



* on the basis of the Special Terms and Conditions on Warranties and Guarantees valid at the date of purchase available on www.schottsolar.com/performance-guarantee



Technical Data

Data at standard test conditions (STC)

	SCHOTT PERFORM™ POLY				
p ≥ 220	≥ 225	≥ 230	≥ 235	≥ 240	
op 29.7	29.8	30.0	30.2	30.4	
7.41	7.55	7.66	7.78	7.90	
36.5	36.7	36.9	37.1	37.3	
8.15	8.24	8.33	8.42	8.52	
13.1	13.4	13.7	14.0	14.3	
F	pp 29.7 p 7.41 : 36.5 8.15	pp 29.7 29.8 p 7.41 7.55 36.5 36.7 8.15 8.24 13.1 13.4	29.7 29.8 30.0 p 7.41 7.55 7.66 36.5 36.7 36.9 8.15 8.24 8.33 13.1 13.4 13.7	pp 29.7 29.8 30.0 30.2 p 7.41 7.55 7.66 7.78 36.5 36.7 36.9 37.1 8.15 8.24 8.33 8.42 13.1 13.4 13.7 14.0	

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 normal operating cell temperature (NOCT)

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Nominal power [Wp]	Pmpp	158	161	165	169	172
Voltage at nominal power [V	/] U _{mpp}	26.7	26.9	27.1	27.2	27.4
Open-circuit voltage [V]	Uoc	33.3	33.5	33.7	33.9	34.1
Short-circuit current [A]	I _{sc}	6.53	6.60	6.67	6.75	6.83
Temperature [°C]	T _{NOCT}	47.2	47.2	47.2	47.2	47.2

NOCT (800 W/m², AM 1.5, windspeed 1 m/s, ambient temperature 20° C)

Data at low irradiation

At a low irradiation intensity of 200 W/m² (AM 1.5 and cell temperature 25°C) 97 % of the STC module efficiency (1,000 W/m²) will be achieved.

kg/m² kg/m²

Temperature coefficients

Power [%/K]	Pmpp	-0.45		
Open-circuit voltage [%/K]	U _{oc}	-0.33		
Short-circuit current [%/K]	I _{sc}	+0.04		
Characteristic data				
Solar cells per module		60		
Cell type		polycrystalline, 156 mm x 156 mm		
Junction box		IP65 with three bypass diodes		
Connector		Tyco-Connector IP67		
Dimensions junction box [mm]		110 x 115 x 25		
Front panel		low iron solar glass 3.2 mm		

foil

anodised aluminium

Dimensions and weight

Backside panel

Frame material

5	
Dimensions [mm]	1,685 x 993
Thickness [mm]	50
Weight [kg]	approx. 20

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
	suction: 5,400 N/m ² or 550 k

Application classification (to IEC 61730) A Fire classification (to IEC 61730) C

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

Permission and certificates

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 %

SCHOTT Solar AG

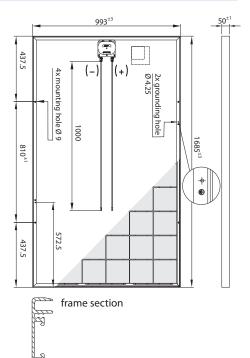
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The installation manual contains additional information on installation and operation. SCHOTT Solar AG reserves the right to make specification changes in this datasheet without notice. All information complies with the requirements of the standard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

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all dimensions in mm



SCHOTT solar