

SCHOTT PERFORM™ MONO series



SCHOTT PERFORM® MONO
255/260/265/270

At a glance

- High Performance
- High module efficiency due to compact module design
- Great installation flexibility
- Elegant design
- High resistance to adverse weather conditions
- 25 years linear performance guarantee*

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

High Performance: The use of exceptionally powerful 6 inch monocrystalline cells ensures high module efficiency. This leads to higher energy yields per square metre and is especially interesting for small residential roof applications.

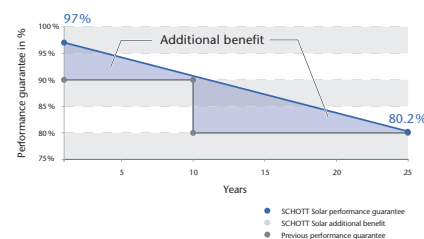
High module efficiency due to compact module design: The optimised module design increases the active module area and leads to an efficient use of the roofage.

Great installation flexibility: The symmetric module format facilitates handling and flexible installation.

Elegant design: The homogeneous black mono cells with the anodized aluminium frame look aesthetically pleasing.

High resistance to adverse weather conditions: The test-verified pressure loads of 5,400 Pa ensure the module withstands weather conditions including wind, storms, ice and snow.

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 guarantee of 10 years*.



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

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solar

Technical Data

Data at standard test conditions (STC)

Module type		SCHOTT PERFORM™ MONO			
Nominal power [Wp]	P_{mpp}	≥ 255	≥ 260	≥ 265	≥ 270
Voltage at nominal power [V]	U_{mpp}	31.3	31.6	31.7	32.0
Current at nominal power [A]	I_{mpp}	8.13	8.24	8.36	8.43
Open-circuit voltage [V]	U_{oc}	37.5	37.7	37.9	38.1
Short-circuit current [A]	I_{sc}	8.59	8.69	8.83	8.87
Module efficiency (%)	η	15.6	15.9	16.2	16.5

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)

Nominal power [Wp]	P_{mpp}	182	186	190	193
Voltage at nominal power [V]	U_{mpp}	27.9	28.2	28.3	28.6
Open-circuit voltage [V]	U_{oc}	33.9	34.1	34.2	34.4
Short-circuit current [A]	I_{sc}	6.50	6.60	6.70	6.75
Temperature [°C]	T_{NOCT}	48.0	48.0	48.0	48.0

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) 96 % of the STC module efficiency (1,000 W/m²) will be achieved.

Temperature coefficients

Power [%/K]	P_{mpp}	-0.44
Open-circuit voltage [%/K]	U_{oc}	-0.33
Short-circuit current [%/K]	I_{sc}	+0.03

Characteristic data

Solar cells per module	60
Cell type	monocrystalline (pseudo-square, 156 mm x 156 mm)
Junction box	IP65 with three bypass diodes
Connector	Tyco-Connector IP67
Dimensions junction box [mm]	102 x 85 x 20.5
Front panel	low iron solar glass 3.2 mm
Backside panel	foil
Frame material	anodised aluminium, black

Dimensions and weight

Dimensions [mm]	1,652 x 990
Thickness [mm]	35
Weight [kg]	19.0

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

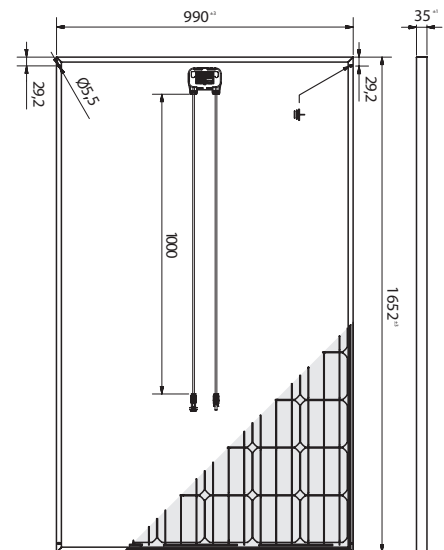
* No external voltage in excess of U_{oc} shall be applied to the module.

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 %

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.



frame section

all dimensions in mm



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