

SCHOTT Solar POLY™ polycrystalline solar modules

SCHOTT POLY™ 225/220/217/210

SCHOTT Solar is a world leader in the photovoltaic industry and has more than 51 years of experience in the development and production of quality components for solar applications.

Due to strict internal quality standards, exceeding those of the certification agencies, all SCHOTT Solar modules are extremely durable and reliable. The polycrystalline cells within each module are sorted to particularly narrow performance tolerances, thereby allowing series interconnections with minimal mismatch losses.

Narrow output tolerance: SCHOTT Solar POLY™ modules are among the industry leaders in power output tolerances. When you receive a POLY™ 220, the module will be at least 220 watts, as measured at the flasher during production. That is minus 0 watts! This provides for a stable, high-energy output and you can feel secure that you know what you will get with a SCHOTT Solar module.

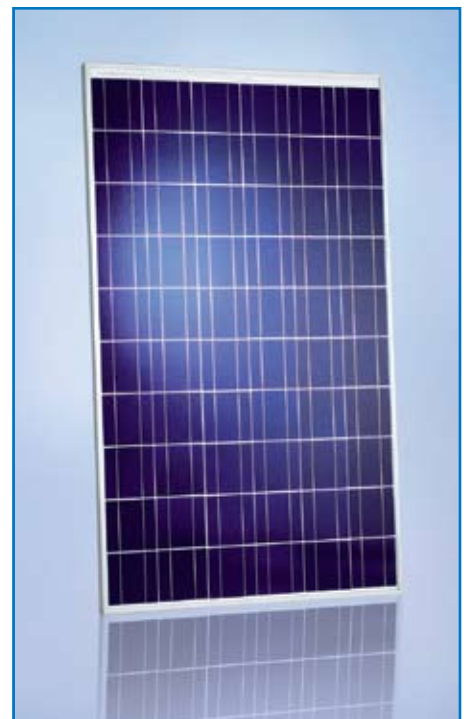
Long term reliability: SCHOTT Solar offers a power output warranty of 25 years.

Up-to-date features: SCHOTT Solar modules offer up-to-date electrical features; PV Wire cables for use with transformerless inverters and locking connectors.

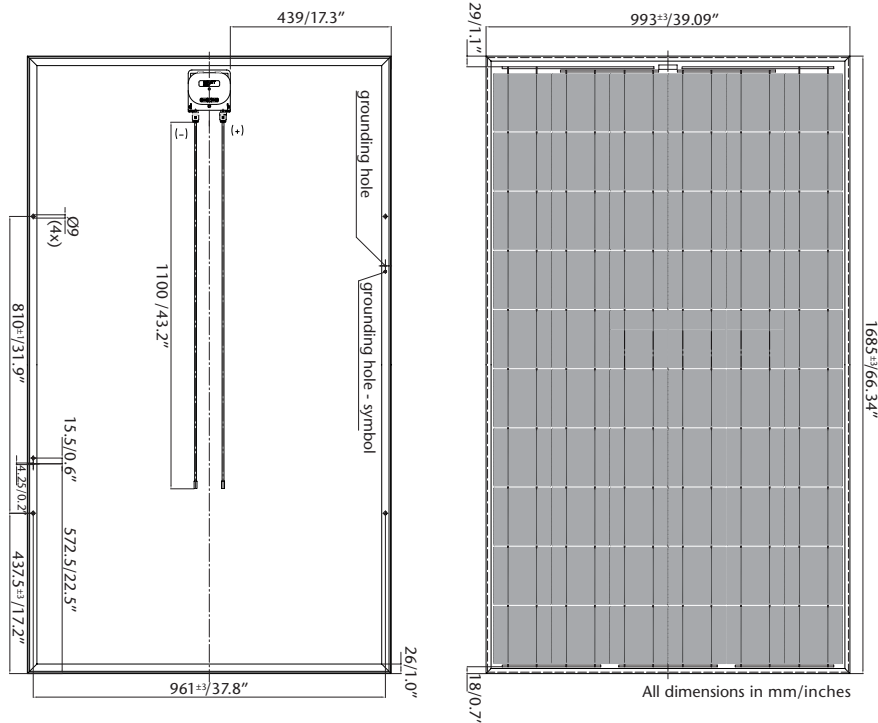
Environment: Due to our concern with jobsite waste and disposal costs, we now "bulk" pack our modules to reduce this waste.

Essential Characteristics of the SCHOTT Solar POLY™ module

- Narrow output tolerance
- New Double Insulated PV Wire
- Tyco SolarLok locking connectors
- Minimize your jobsite waste



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Technical Data

SCHOTT POLY™ 225/220/217/210

Electrical Data¹

The electrical data applies 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.



	P _{nom}	225 Wp	220 Wp	217 Wp	210 Wp
Nominal power	P _{nom}	225 Wp	220 Wp	217 Wp	210 Wp
Voltage at maximum power point	V _{mpp}	29.8 V	29.7 V	29.6 V	29.3 V
Current at maximum power point	I _{mpp}	7.55 A	7.41 A	7.33 A	7.16 A
Open circuit voltage	V _{oc}	36.7 V	36.5 V	36.4 V	36.1 V
Short circuit current	I _{sc}	8.24 A	8.15 A	8.10 A	7.95 A
Module efficiency	(η _m)	14.80%	14.47%	14.28%	13.82%

Data at Nominal Operating Cell Temperature (NOCT)

Irradiance 800 W/m², spectrum Air Mass 1.5, windspeed 1m/s and a cell temperature of 20°C.



	P _{nom}	161	158	156	151
Nominal power	P _{nom}	161	158	156	151
Voltage at nominal power	V _{mpp}	26.9	26.7	26.7	26.4
Open circuit voltage	V _{oc}	33.5	33.3	33.2	33.0
Short circuit current	I _{sc}	6.60	6.53	6.49	6.37
Temperature (°C)	T _{NOCT}	47.2	47.2	47.2	47.2

Temperature Coefficients



Power	- 0.47 %/°C
Open circuit voltage	- .334 %/°C
Short circuit current	.030 %/°C

Characteristic Data



Solar cells per module	60
Cell type	MAIN-Isotextured (polycrystalline silicon) 6" (156 mm x 156 mm), full square
Connection	Junction box with 3 bypass diodes, PV WIRE, 43.3" x 4mm ² , TYCO SolarLok connectors
Front panel	Low-iron solar glass 4 mm
Frame material	Anodized aluminum

Dimensions and Weight



Dimensions	66.34" (1,685 mm) x 39.09" (993 mm) tolerance ± .118"
Thickness with frame	1.97" (50 mm) tolerance .04"
Weight	Approx. 50.6 lbs. (23.0 kg)

Limits



System Voltage (V _{DC})	600
Maximum Reverse Current I _R (A)*	15
Operating module temperature (°C)	-40...+85
Maximum load	75lbs/ft ²
Fire Classification	C

*No external current greater than V_{oc} shall be applied to the module.

Qualifications



The SCHOTT POLY™ 225/220/217/210 is certified to and meets the requirements of UL 1703.

¹The rated power may vary by ± 4%.

The right is reserved to make technical modification. For detailed product drawings and specification please contact SCHOTT Solar or an authorized reseller.

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