

SCHOTT SOLAR POLY™ polycrystalline solar modules

SCHOTT Solar is a world leader in the photovoltaic industry and has more than 50 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 guarantee of 20 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.

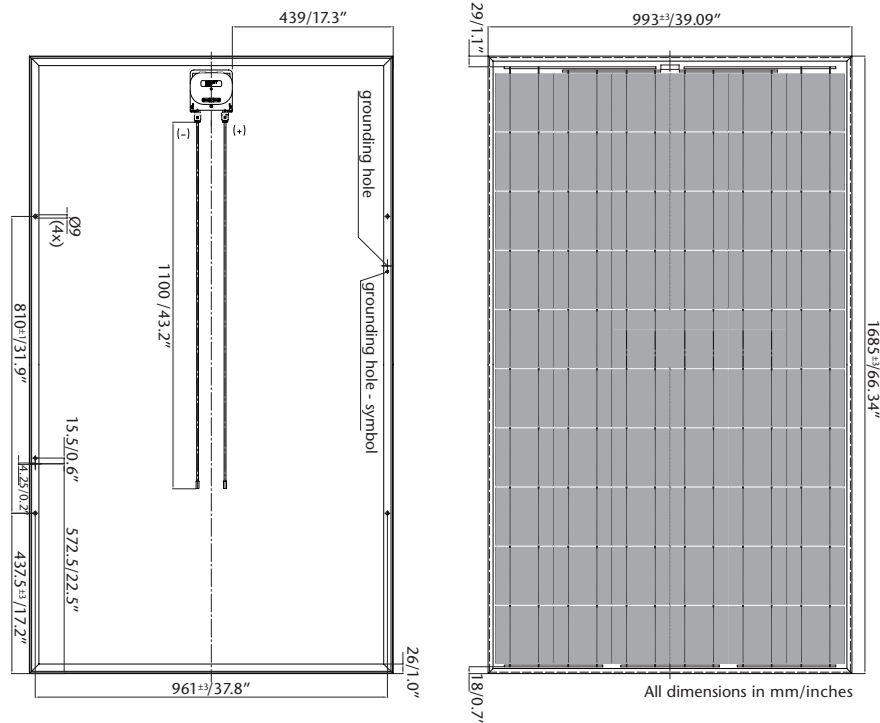
SCHOTT POLY™ 225/220/217/210

Essential Characteristics of the SCHOTT Solar POLY™ module

- Narrow output tolerance
- Cables are the new PV Wire for high efficiency transformerless inverters (UL4703)
- Tyco SolarLok locking connectors
- Minimize your jobsite waste



SCHOTT POLY™ 225/220/217/210




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Technical Data

Electrical Data


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.

	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

The rated power may vary by ± 4%.

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.

	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	- .0334 %/°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.
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The right is reserved to make technical modification. For detailed product drawings and specification please contact SCHOTT Solar or an authorized reseller.

SCHOTT Solar, Inc.

U.S. Sales and Marketing
2260 Lava Ridge Court, Suite 102
Roseville, CA 95661
Toll free: 888-457-6527
Email: info.solar@us.schottsolar.com
www.us.schottsolar.com

U.S. Production Facility
5201 Hawking Drive, SE
Albuquerque, NM 87106



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