

Sunmodule®

SW 100 POLY RIB



Datasheet



TUV Power controlled:
Lowest measuring tolerance in industry



25-year linear performance warranty
and 10-year product warranty

World-class quality

Fully-automated production lines and seamless monitoring of the process and material ensure the quality that the company sets as its benchmark for its sites worldwide.

SolarWorld Plus-Sorting

Plus-Sorting guarantees highest system efficiency. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

25-year linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance digression of 0.7% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry. In addition, SolarWorld is offering a product warranty, which has been extended to 10 years.*

*in accordance with the applicable SolarWorld Limited Warranty at purchase.
www.solarworld.com/warranty



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection
- Blowing sand resistant



- Ammonia resistance tested
- Periodic Inspection
- Power Controlled



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PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

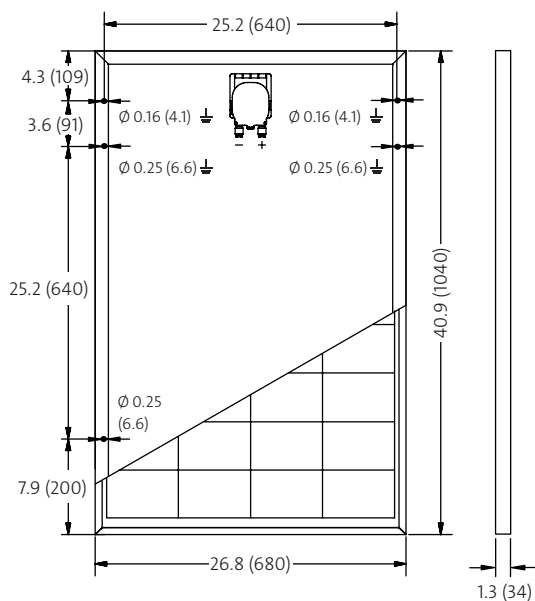
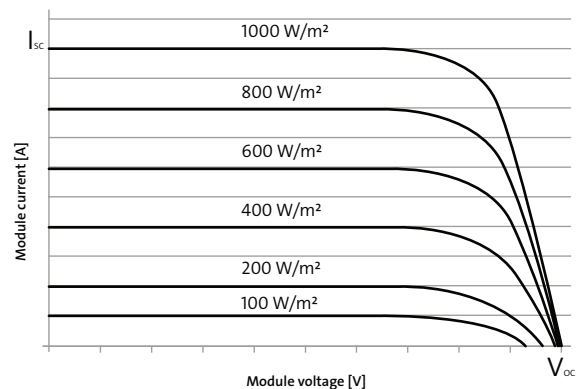
Maximum power	P_{max}	100 Wp
Open circuit voltage	V_{oc}	22.1 V
Maximum power point voltage	V_{mpp}	18.8 V
Short circuit current	I_{sc}	6.04 A
Maximum power point current	I_{mpp}	5.51 A
Module efficiency	η_m	14.14 %

*STC: 1000 W/m², 25°C, AM 1.5

1) Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).

THERMAL CHARACTERISTICS

NOCT	46 °C
TC I_{sc}	0.051 %/°C
TC V_{oc}	-0.31 %/°C
TC P_{mpp}	-0.41 %/°C
Operating temperature	-40°C to 85°C



All units provided are imperial. SI units provided in parentheses.
SolarWorld AG reserves the right to make specification changes without notice.

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

Maximum power	P_{max}	73.0 Wp
Open circuit voltage	V_{oc}	19.5 V
Maximum power point voltage	V_{mpp}	16.6 V
Short circuit current	I_{sc}	4.91 A
Maximum power point current	I_{mpp}	4.41 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 100% (+/-2%) of the STC efficiency (1000 W/m²) is achieved.

COMPONENT MATERIALS

Cells per module	36
Cell type	Poly crystalline
Cell dimensions	4.09 in x 6.14 in (104 mm x 156 mm)
Front	Tempered glass (EN 12150)
Frame	Clear anodized aluminum
Weight	17.6 lbs (8.0 kg)

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II	1000 V
Maximum system voltage NEC	600 V
Maximum reverse current	15 A
Number of bypass diodes	2
Design Loads*	Two rail system 113 psf downward 50 psf upward

*Please refer to the Sunmodule installation instructions for the details associated with these load cases.

ADDITIONAL DATA

Power sorting ¹	-5/+ 10 %
J-Box	IP65
Module type (UL 1703)	1