Sunmodule^{*} Plus SW 280-295 MONO





TUV Power controlled: Lowest measuring tolerance in industry



Every component is tested to meet 3 times IEC requirements



Designed to withstand heavy accumulations of snow and ice



Sunmodule Plus: Positive performance tolerance



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



Glass with anti-reflective coating

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, along with our industry-first 10-year product warranty.**

* Solar cells manufactured in U.S.A. or Germany. Modules assembled in U.S.A. **in accordance with the applicable SolarWorld Limited Warranty at purchase. www.solarworld.com/warranty















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Home Innovation





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*STC: 1000W/m², 25°C, AM 1.5

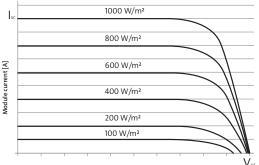
PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

| | | SW 280 | SW 285 | SW 290 | SW 295 |
|-----------------------------|------------------|---------|---------|---------|---------|
| Maximum power | P _{max} | 280 Wp | 285 Wp | 290 Wp | 295 Wp |
| Open circuit voltage | V _{oc} | 39.5 V | 39.7 V | 39.9 V | 40.0 V |
| Maximum power point voltage | V _{mpp} | 31.2 V | 31.3 V | 31.4 V | 31.5 V |
| Short circuit current | I _{sc} | 9.71 A | 9.84 A | 9.97 A | 10.10 A |
| Maximum power point current | I _{mpp} | 9.07 A | 9.20 A | 9.33 A | 9.45 A |
| Module efficiency | η _m | 16.70 % | 17.00 % | 17.30 % | 17.59 % |

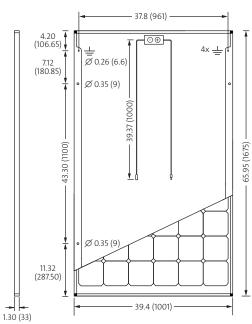
PERFORMANCE AT 800 W/M², NOCT, AM 1.5

| Maximum power P _{max} 209.2 Wp 213.1 Wp 217.1 Wp Open circuit voltage V _{oc} 36.1 V 36.4 V 36.6 V Maximum power point voltage V _{oc} 28.5 V 28.7 V 28.8 V | SW 295 |
|--|----------|
| | 220.5 Wp |
| | 36.7 V |
| Maximum power point voltage V 28.5 V 28.7 V 28.8 V | 28.9 V |
| Short circuit current I _{sc} 7.85 A 7.96 A 8.06 A | 8.17 A |
| Maximum power point current Image 7.33 A 7.43 A 7.54 A | 7.64 A |

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







COMPONENT MATERIALS

| Cells per module | 60 |
|------------------|---|
| Cell type | Monocrystalline |
| Cell dimensions | 6.17 in x 6.17 in (156.75 x 156.75 mm) |

THERMAL CHARACTERISTICS

| NOCT | 46 °C | Power sorting |
|--------------------|---------------|--------------------|
| TCI _{sc} | 0.04 % / °C | J-Box |
| TCV _{oc} | -0.30 % / °C | Connector |
| TCP _{mpp} | -0.41 % / °C | |
| Operating temp | -40 to +85 °C | Module fire perfor |
| | | |

Low-iron tempered glass Front with ARC (EN 12150) Frame Clear anodized aluminum Weight 39.7 lbs (18.0 kg)

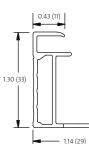
ADDITIONAL DATA

| 46 °C | Power sorting | -0 Wp/+5 Wp |
|----------|---------------------|--|
| 4%/°C | J-Box | IP65 |
|)%/°C | Connector | PV wire per UL4703 with H4/UTX connectors |
| 1 % / °C | Module fire perform | ance (UL 1703) Type 1 |
| | | |

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

| Maximum system voltage SC II / NEC | | 1000 V |
|------------------------------------|-------------------|---------------------------------|
| Maximum reverse current | | 25 A |
| Number of bypass did | odes | 3 |
| Design loads* | Two rail system | 113 psf downward, 64 psf upward |
| Design loads* | Three rail system | 178 psf downward, 64 psf upward |
| Design loads* | Edge mounting | 178 psf downward, 41 psf upward |

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



 Compatible with both "Top-Down" and "Bottom" mounting methods

• ≟ Grounding Locations: - 4 locations along the length of the module in the extended flange.



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