Sunmodule^{*} Plus SW 290 MONO (33mm frame)





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.*

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



















solarworld.com

Sunmodule^{*} Plus SW 290 MONO (33mm frame)

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

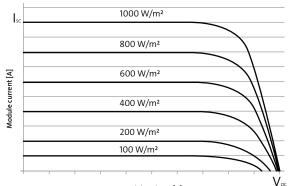
| P _{max} | 290 Wp |
|------------------|--|
| V _{oc} | 39.9 V |
| V _{mpp} | 31.4 V |
| I _{sc} | 9.97 A |
| Impp | 9.33 A |
| η | 17.30 % |
| | V _{oc} V _{mpp} I _{sc} I _{mpp} |

*STC: 1000 W/m², 25°C, AM 1.5

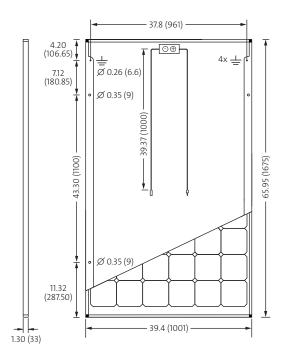
1) Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).

THERMAL CHARACTERISTICS

| NOCT | 46 °C |
|-----------------------|---------------|
| TC I _{sc} | 0.04 %/°C |
| TC Voc | -0.30 %/°C |
| TC P _{mpp} | -0.41 %/°C |
| Operating temperature | -40°C to 85°C |



Module voltage [V]



Maximum nower

| Maximum power | P _{max} | 217.1 Wp |
|-----------------------------|------------------|----------|
| Open circuit voltage | V _{oc} | 36.6 V |
| Maximum power point voltage | V _{mpp} | 28.8 V |
| Short circuit current | I _{sc} | 8.06 A |
| Maximum power point current | Impp | 7.54 A |

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

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.

SOLAR

REAL VALUE

COMPONENT MATERIALS

| Cells per module | 60 |
|------------------|--|
| Cell type | Mono crystalline |
| Cell dimensions | 6.17 in x 6.17 in (156.75 x 156.75 mm) |
| Front | Tempered glass (EN 12150) |
| Frame | Clear anodized aluminum |
| Weight | 39.7 lbs (18.0 kg) |

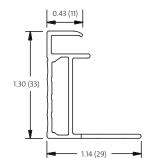
SYSTEM INTEGRATION PARAMETERS

| Maximum system voltage SC II / NEC | | 1000 V |
|------------------------------------|-------------------|-----------------------------------|
| Maximum reverse current | | 25 A |
| Number of bypass diodes | | 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

ADDITIONAL DATA

| Power sorting ¹ | -0 Wp / +5 Wp |
|----------------------------|---------------------------------------|
| J-Box | IP65 |
| Module leads | PV wire per UL4703 with H4 connectors |
| Module type (UL 1703) | 1 |
| Glass | Low iron tempered with ARC |
| | |



- Compatible with both "Top-Down" and "Bottom" mounting methods
- ≟ Grounding Locations: - 4 locations along the length of the module in the extended flange.