

Sunmodule®

SW 320 XL 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



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Blowing sand resistance, IEC 60068-2-68
- Ammonia resistance, IEC 62716
- Salt mist corrosion, IEC 61701
- Periodic inspection



- Periodic inspection
- Power controlled



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PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

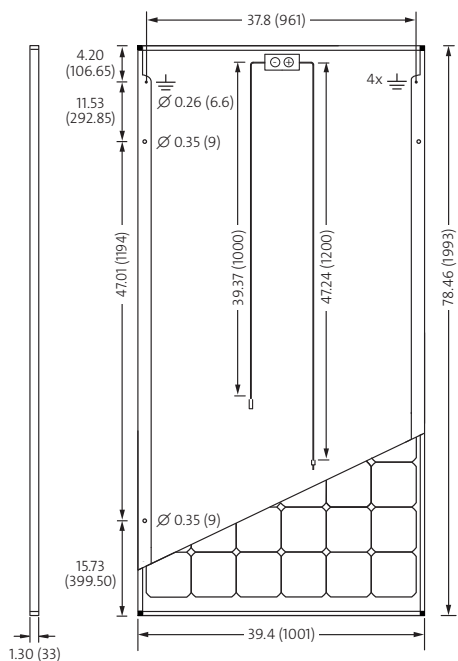
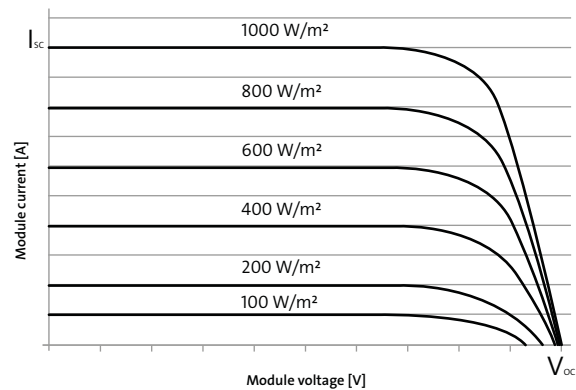
| | | |
|-----------------------------|-----------|---------|
| Maximum power | P_{max} | 320 Wp |
| Open circuit voltage | V_{oc} | 45.9 V |
| Maximum power point voltage | V_{mpp} | 36.7 V |
| Short circuit current | I_{sc} | 9.41 A |
| Maximum power point current | I_{mpp} | 8.78 A |
| Module efficiency | η_m | 16.04 % |

*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} | 0.042 %/°C |
| TC V_{oc} | -0.304 %/°C |
| TC P_{mpp} | -0.43 %/°C |
| Operating temperature | -40°C to 85°C |



PERFORMANCE AT 800 W/m², NOCT, AM 1.5

| | | |
|-----------------------------|-----------|----------|
| Maximum power | P_{max} | 244.4 Wp |
| Open circuit voltage | V_{oc} | 40.1 V |
| Maximum power point voltage | V_{mpp} | 33.8 V |
| Short circuit current | I_{sc} | 7.82 A |
| Maximum power point current | I_{mpp} | 7.23 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 | 72 |
| 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 | 47.6 lbs (21.6 kg) |

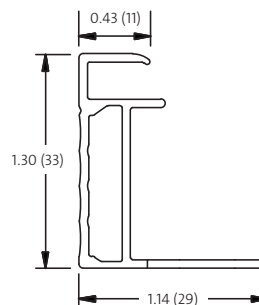
SYSTEM INTEGRATION PARAMETERS

| | | |
|------------------------------------|-----------------|-----------------------------------|
| 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* | Edge mounting | 178 psf downward 23 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.



www.BluePacificSolar.com