# Sunmodule® Bisun
# SW 325 XL DUO

SOLARWORLD
REAL VALUE

*Data sheet*

## QUALITY BY SOLARWORLD

**SolarWorld's foundation is built on more than 40 years of ongoing innovation, continuous optimization and technology expertise. All production steps from silicon to module are established at our production sites ensuring the highest possible quality for our customers. Our modules come in a variety of different sizes and power, making them suitable for all global applications – from residential solar systems to large-scale power plants.**

- SolarWorld's new Sunmodule Bisun solar panel offers up to 25% more yield thanks to the use of our latest, highly efficient PERC cell technology combined with SolarWorld duo cells. The duo cells are active on both the front and back, making them capable of converting light from all directions into power
- Extremely tough and stable, despite its light weight
- Tested in extreme weather conditions – hail-impact tested and resistant to salt spray, frost, ammonia, dust and sand
- Proven guarantee against hotspots and PID-free to IEC 62804-1
- SolarWorld Efficells™ duo for the highest possible energy yields
- Patented corner design with integrated drainage for optimized self-cleaning
- High-transmissive front glass with anti-reflective coating
- Long-term safety and guaranteed top performance – 25-year linear performance warranty; 20-year product warranty

High Quality Engineering by SolarWorld

VDE
10/2016
Quality Tested
✓ high reliability
✓ low degradation
✓ optimized durability
✓ continuous line monitoring
ID. 40045046

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## PERFORMANCE UNDER OPTIMIZED CONDITIONS

| | | | | | |
|---|---|---|---|---|---|
| ***Energy boost*** | | 6 % | 10 % | 20 % | 25 % |
| ***Maximum power*** | $P_{max}$ | 343 Wp | 355 Wp | 385 Wp | 400 Wp |
| ***Open circuit voltage*** | $V_{oc}$ | 47.0 V | 47.0 V | 47.0 V | 47.0 V |
| ***Maximum power point voltage*** | $V_{mpp}$ | 37.3 V | 37.2 V | 37.0 V | 36.9 V |
| ***Short circuit current*** | $I_{sc}$ | 9.84 A | 10.21 A | 11.14 A | 11.60 A |
| ***Maximum power point current*** | $I_{mpp}$ | 9.20 A | 9.55 A | 10.42 A | 10.85 A |
| ***Module efficiency*** | $\eta_m$ | 17.20 % | 17.80 % | 19.30 % | 20.04 % |

## PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

| | | |
|---|---|---|
| ***Maximum power*** | $P_{max}$ | 325 Wp |
| ***Open circuit voltage*** | $V_{oc}$ | 47.0 V |
| ***Maximum power point voltage*** | $V_{mpp}$ | 37.7 V |
| ***Short circuit current*** | $I_{sc}$ | 9.28 A |
| ***Maximum power point current*** | $I_{mpp}$ | 8.68 A |
| ***Module efficiency*** | $\eta_m$ | 16.29 % |

Measuring tolerance ($P_{max}$) traceable to TUV Rheinland: +/- 2%
(TUV Power controlled, ID 0000039351)

*STC: 1000W/m², 25 °C, AM 1.5

## PERFORMANCE AT 800 W/m², NOCT, AM 1.5

| | | |
|---|---|---|
| ***Maximum power*** | $P_{max}$ | 242 Wp |
| ***Open circuit voltage*** | $V_{oc}$ | 42.9 V |
| ***Maximum power point voltage*** | $V_{mpp}$ | 34.4 V |
| ***Short circuit current*** | $I_{sc}$ | 7.50 A |
| ***Maximum power point current*** | $I_{mpp}$ | 7.01 A |
| ***Module efficiency*** | $\eta_m$ | 12.15 % |

Minor reduction in efficiency under partial load conditions at 25 °C: at 200 W/m², 97% (+/-3%) of the STC efficiency (1000 W/m²) is achieved.

## PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

| | |
|---|---|
| ***Power sorting*** | -0 Wp / +10 Wp |
| ***Maximum system voltage SC II / NEC*** | 1000 V |
| ***Maximum reverse current*** | 25 A |
| ***Number of bypass diodes*** | 3 |
| ***Operating temperature*** | -40 to +85 °C |
| ***Maximum design loads (Two rail system)**** | +50 / -50 psf (2.4 / -2.4 kN/m²) |

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

## COMPONENT MATERIALS

| | |
|---|---|
| ***Cells per module*** | 72 |
| ***Cell type*** | Bifacial duo |
| ***Cell dimensions*** | 6 in x 6 in (156 mm x 156 mm) |
| ***Front*** | Tempered safety glass with ARC (EN 12150) |
| ***Back*** | Multi-layer polymer backsheet, clear |
| ***Frame*** | Clear anodized aluminum |
| ***J-Box*** | IP65 |
| ***Connector*** | PV wire (UL 4703) with Amphenol UTX connectors |
| ***Module fire performance*** | (UL 1703) Type 1 |

## DIMENSIONS / WEIGHT

| | |
|---|---|
| ***Length*** | 78.46 in (1993 mm) |
| ***Width*** | 39.40 in (1001 mm) |
| ***Height*** | 1.30 in (33 mm) |
| ***Weight*** | 47.6 lb (21.6 kg) |

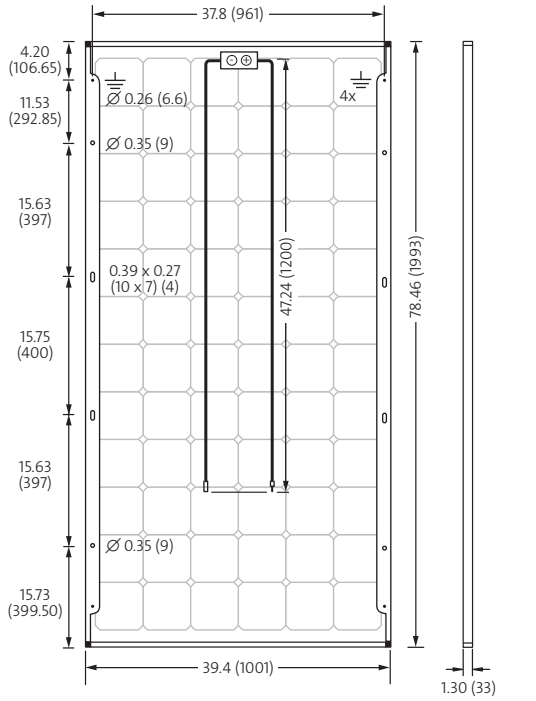
## THERMAL CHARACTERISTICS

| | |
|---|---|
| ***NOCT*** | 46 °C |
| ***TC $I_{sc}$*** | 0.044 % /C |
| ***TC $V_{oc}$*** | -0.31 % /C |
| ***TC $P_{mpp}$*** | -0.43 % /C |

## ORDERING INFORMATION

| ***Order number*** | ***Description*** |
|---|---|
| ***82000233*** | Sunmodule Bisun SW 325 XL duo |

ISO 9001
ISO 14001
Certified




All units provided are imperial. SI units provided in parentheses.

## CERTIFICATES AND WARRANTIES

| | | | |
|---|---|---|---|
| ***Certificates*** | IEC 61730 | IEC 61215 | UL 1703 |
| | IEC 62716 | IEC 60068-2-68 | IEC 61701 |
| ***Warranties*** | Product Warranty | | 20 years |
| | Linear Performance Guarantee | | 25 years |



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