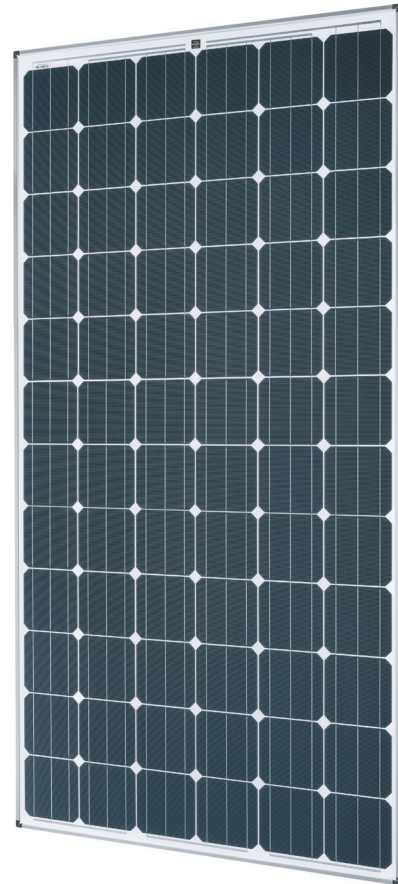


# Sunmodule<sup>®</sup> Bisun SW 325 XL duo



TUV Power controlled:  
Lowest measuring tolerance in industry



Up to 25 % energy boost through use of highly efficient duo cells



Sunmodule Bisun:  
Positive performance tolerance



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

SolarWorld's Bisun solar modules boost energy production up to 25% through the use of innovative and highly efficient duo cells - an innovative development based on PERC cell technology. The bifacial cells convert the sunlight into power not only from the front of the module but from the back as well.

Innovative glass technologies on the front and backside make the Sunmodule Bisun solar modules extremely weather resistant and robust, offering higher mechanical resilience and a longer service life.

With its linear performance warranty covering a period of 25 years, SolarWorld guarantees a maximum performance degradation of just 0.7% p.a.

The TUV Rheinland Power controlled inspection mark also guarantees that the nominal power of the solar modules is inspected at regular intervals to insure accuracy. The maximum allowed deviation is 2 percent.



- 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



# Sunmodule<sup>®</sup> Bisun SW 325 XL duo



## 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	$V_{oc}$	39.0 V	39.0 V	39.0 V	39.0 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 %

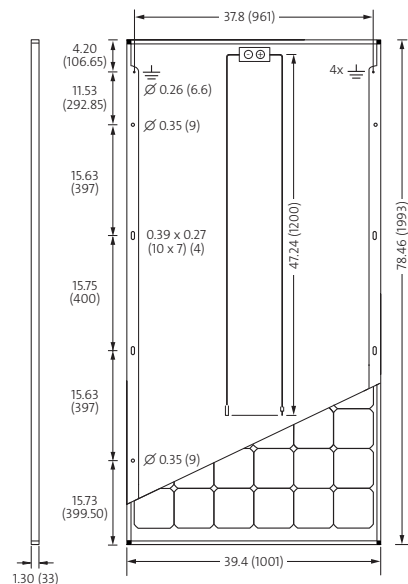
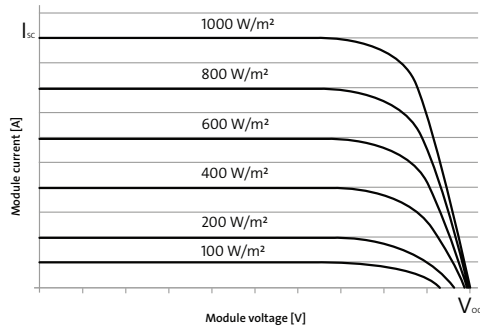
Measuring tolerance ( $P_{max}$ ) traceable to TUV Rheinland: +/- 2 % (TUV Power controlled)

\*STC: 1000W/m<sup>2</sup>, 25 °C, AM 1.5

## PERFORMANCE AT 800 W/m<sup>2</sup>, 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/m<sup>2</sup>, 95 % (+/-2%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.



## COMPONENT MATERIALS

Cells per module	72
Cell type	bifacial duo
Cell dimensions	6.17 x 6.17 in (156.75 x 156.75 mm)
Front	Tempered safety glass (EN 12150)
Back	transparent backsheet
Frame	clear anodized aluminum
J-Box	IP65
Connector	PV wire per UL4703 with UTX/H4 connectors
Module fire performance	(UL1703) Type 3

## DIMENSIONS / WEIGHT

Length	78.46 in (1993 mm)
Width	39.4 in (1001 mm)
Height	1.3 in (33 mm)
Weight	47.6 lbs (21.6 kg)

## THERMAL CHARACTERISTICS

NOCT	46 °C
TK $I_{sc}$	0.042 % / C
TK $V_{oc}$	-0.304 % / C
TK $P_{mpp}$	-0.43 % / C

## PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Power sorting	-0 Wp / +5 Wp
Maximum system voltage SC II / NEC	1000 V
Maximum reverse current	25 A
Load / dynamic load	113 / 50 psf (5.4 / 2.4 kN/m <sup>2</sup> )
Number of bypass diodes	3
Operating range	-40 to +85 °C

## INSTALLATION PARAMETERS FOR MAXIMUM YIELD

For maximum system yield and optimum performance ratio we recommend the following installation guidelines:

- Highly reflective background surface like white concrete, bright roof covering membrane, trapezoidal roof or limestone ground
- Maximize module distance to ground
- Mounting system with low shading of backside
- Sufficient distance between rows to avoid shading
- Prefer landscape mounting

All units provided are imperial. SI units provided in parentheses.  
SolarWorld AG reserves the right to make specification changes without notice.  
This data sheet complies with the requirements of EN 50380.

SW-01-7123US-G 01-2016