

# Sunmodule

SW 235 mono / Version 2.0

# 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 years linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance degression 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. In addition, SolarWorld is offering a product warranty, which has been extended to 10 years.\*

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



Qualified, IEC 61215
Safety tested,
IEC 61730
Periodic Inspection















We turn sunlight into power.



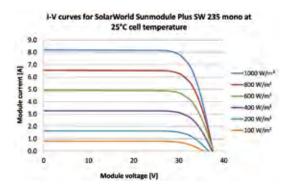
#### PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)\*

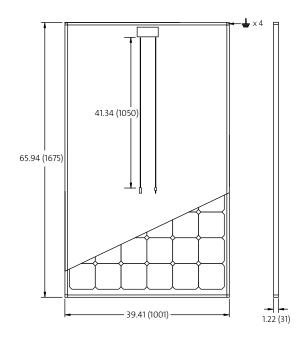
		SW 235
Maximum power	P <sub>max</sub>	235 Wp
Open circuit voltage	V <sub>oc</sub>	37.5 V
Maximum power point voltage	$V_{mpp}$	30.3 V
Short circuit current	l <sub>sc</sub>	8.19 A
Maximum power point current	I <sub>mpp</sub>	7.77 A

<sup>\*</sup>STC: 1000W/m2, 25°C, AM 1.5

# THERMAL CHARACTERISTICS

NOCT	46 °C
TC I <sub>sc</sub>	0.004 %/K
TC <sub>Voc</sub>	-0.30 %/K
TC P <sub>mpp</sub>	-0.45 %/K
Operating temperature	-40°C to 85°C





#### PERFORMANCE AT 800 W/m<sup>2</sup>, NOCT, AM 1.5

		SW 235
Maximum power	P <sub>max</sub>	170.9 Wp
Open circuit voltage	$V_{oc}$	34.0 V
Maximum power point voltage	$V_{mpp}$	27.5 V
Short circuit current	l <sub>sc</sub>	6.60 A
Maximum power point current	Impp	6.22 A
Mi		

Minor reduction in efficiency under partial load conditions at 25°C: at 200W/m², 95% (+/-3%) of the STC efficiency (1000 W/ $m^2$ ) is achieved.

# **COMPONENT MATERIALS**

Cells per module	60
Cell type	Mono crystalline
Cell dimensions	6.14 in x 6.14 in (156 mm x 156 mm)
Front	tempered glass (EN 12150)
Frame	Clear anodized aluminum
Weight	46.7 lbs (21.2 kg)

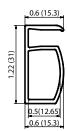
# SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II		1000 V
Max. system voltage USA NEC		600 V
Maximum reverse current		16 A
Number of bypass diodes		3
UL Design Loads*	Two rail system	113 psf downward 64 psf upward
UL Design Loads*	Three rail system	170 psf downward 64 psf upward
IEC Design Loads*	Two rail system	113 psf downward 50 psf upward

<sup>\*</sup>Please refer to the Sunmodule installation instructions for the details associated with these load cases

## **ADDITIONAL DATA**

Power tolerance <sup>2)</sup>	-0 Wp / +5 Wp
J-Box	IP65
Connector	MC4
Module efficiency	14.02 %
Fire rating (UL 790)	Class C



## **VERSION 2.0 FRAME**

- · Compatible with "Top-Down" mounting methods
- **∔**Grounding Locations: 4 corners of the frame

<sup>1)</sup> Sunmodules dedicated for the United States and Canada are tested to UL 1703 Standard and listed by a third party laboratory. The laboratory may vary by product and region. Check with your SolarWorld representative to confirm which laboratory has a listing for the product. 2) Measuring tolerance traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).

<sup>3)</sup> All units provided are imperial. SI units provided in parentheses.