



# Sunmodule<sup>+</sup>™

## SW 255 mono / Version 2.0 and 2.5 Frame

### 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 degradation 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](http://www.solarworld.com/warranty)



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection



We turn sunlight into power.

## SW 255 mono / Version 2.0 and 2.5 Frame

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

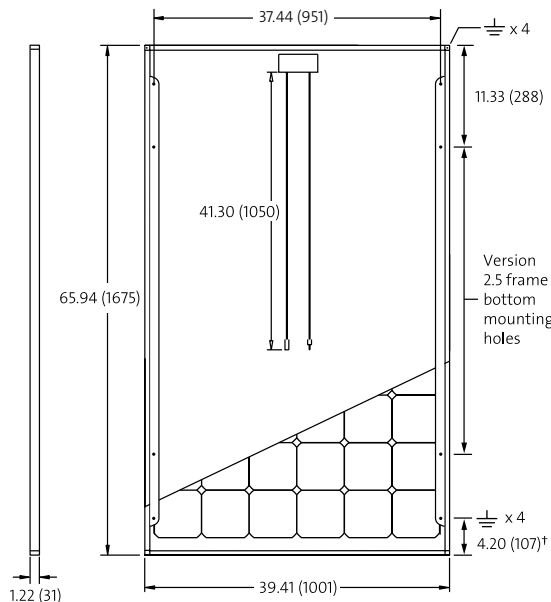
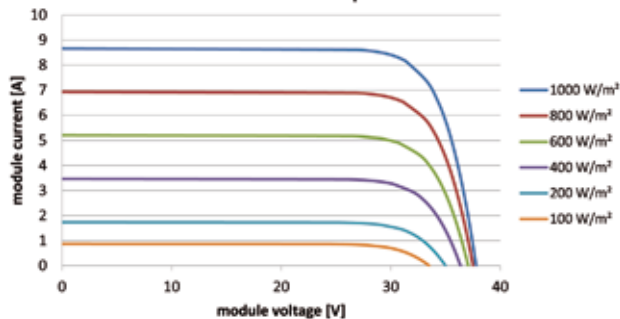
|                             |           | SW 255 |
|-----------------------------|-----------|--------|
| Maximum power               | $P_{max}$ | 255 Wp |
| Open circuit voltage        | $V_{oc}$  | 37.8 V |
| Maximum power point voltage | $V_{mpp}$ | 31.4 V |
| Short circuit current       | $I_{sc}$  | 8.66 A |
| Maximum power point current | $I_{mpp}$ | 8.15 A |

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

### THERMAL CHARACTERISTICS

|                       |               |
|-----------------------|---------------|
| NOCT                  | 46 °C         |
| TC $I_{sc}$           | 0.004 %/K     |
| TC $V_{oc}$           | -0.30 %/K     |
| TC $P_{mpp}$          | -0.45 %/K     |
| Operating temperature | -40°C to 85°C |

IV-curves for SolarWorld Sunmodule Plus SW 255 mono at 25°C cell temperature



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

|                             |           | SW 255   |
|-----------------------------|-----------|----------|
| Maximum power               | $P_{max}$ | 184.1 Wp |
| Open circuit voltage        | $V_{oc}$  | 34.0 V   |
| Maximum power point voltage | $V_{mpp}$ | 28.3 V   |
| Short circuit current       | $I_{sc}$  | 6.99 A   |
| Maximum power point current | $I_{mpp}$ | 6.52 A   |

Minor reduction in efficiency under partial load conditions at 25°C: at 200W/m<sup>2</sup>, 95% (+/-3%) of the STC efficiency (1000 W/m<sup>2</sup>) 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)                  |

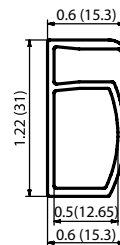
### SYSTEM INTEGRATION PARAMETERS

|                              |                   |                                   |
|------------------------------|-------------------|-----------------------------------|
| 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<br>64 psf upward |
| UL Design Loads*             | Three rail system | 170 psf downward<br>64 psf upward |
| IEC Design Loads*            | Two rail system   | 113 psf downward<br>50 psf upward |

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

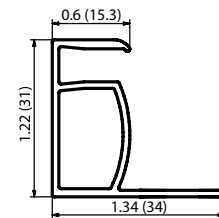
### ADDITIONAL DATA

|                               |               |
|-------------------------------|---------------|
| Power tolerance <sup>2)</sup> | -0 Wp / +5 Wp |
| J-Box                         | IP65          |
| Connector                     | MC4           |
| Module efficiency             | 15.21 %       |
| Fire rating (UL 790)          | Class C       |



#### VERSION 2.0 FRAME

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



#### VERSION 2.5 FRAME

- Compatible with both "Top-Down" and "Bottom" mounting methods
- ⚡ Grounding Locations: - 4 corners of the frame  
- 4 locations along the length of the module in the extended flange<sup>†</sup>

1) 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).

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