



**NEW!** 25-YEAR LINEAR  
PERFORMANCE GUARANTEE  
AND 5-YEAR EXTENDED  
PRODUCT WARRANTY\*

**Length** 65.94 in (1675 mm)  
**Width** 39.41 in (1001 mm)  
**Height** 1.22 in (31 mm)  
**Weight** 46.7 lbs (21.2 kg)  
**Frame** Aluminum

# Sunmodule<sup>+</sup>®

## SW 250 MONO



### World-class quality

SolarWorld products are manufactured in state-of-the-art factories according to strict German and US quality standards.

### Award-winning products

SolarWorld modules have been ranked number one for two years running in ongoing comparison tests carried out by the Photon trade magazine. Sunmodule plus panels generated up to 12% more yield than other major brand panels.

### SolarWorld Plus-Sorting

Plus-Sorting guarantees the highest efficiency of the installation. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

### 25-year Linear Performance Guarantee\*

SolarWorld guarantees, over 25 years, that the modules' performance will not decrease by more than 0.7% per year – a distinct added value compared to industry-standard two-tiered guarantees.

\*according to the SolarWorld service certificate valid at the time of purchase  
[www.solarworld-global.com/service-certificate](http://www.solarworld-global.com/service-certificate)



**We turn sunlight into power**

# Sunmodule<sup>+</sup>

## SW 250 MONO

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

| SW 250                      |           |        |
|-----------------------------|-----------|--------|
| Maximum power               | $P_{max}$ | 250 Wp |
| Open circuit voltage        | $V_{oc}$  | 37.8 V |
| Maximum power point voltage | $V_{mpp}$ | 31.1 V |
| Short-circuit current       | $I_{sc}$  | 8.28 A |
| Maximum power point current | $I_{mpp}$ | 8.05 A |

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

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

| SW 250                      |           |          |
|-----------------------------|-----------|----------|
| Maximum power               | $P_{max}$ | 183.3 Wp |
| Open circuit voltage        | $V_{oc}$  | 34.6 V   |
| Maximum power point voltage | $V_{mpp}$ | 28.5 V   |
| Short-circuit current       | $I_{sc}$  | 6.68 A   |
| Maximum power point current | $I_{mpp}$ | 6.44 A   |

Minor reduction in efficiency under partial load conditions at 25°C: at 220 W/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        | Monocrystalline Silicon  |
| Cell dimensions  | 156 mm x 156 mm          |
| Front            | tempered glass (EN12150) |

### SYSTEM INTEGRATION PARAMETERS

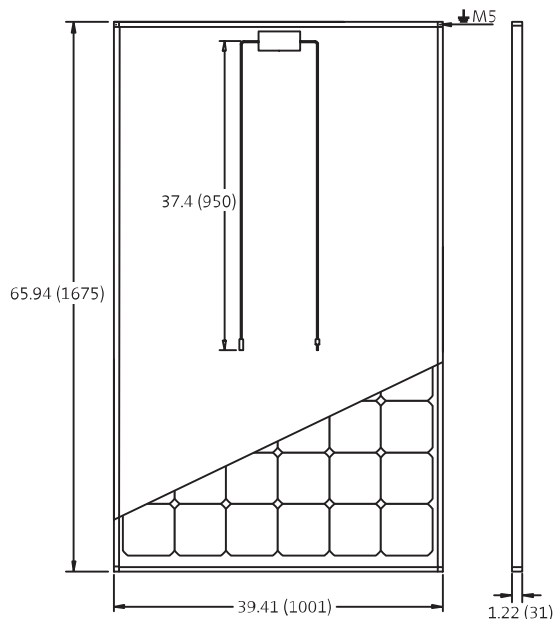
|                                       |                       |
|---------------------------------------|-----------------------|
| Maximum system voltage SC II          | 1000 V                |
| Maximum system voltage USA NEC        | 600 V                 |
| Maximum reverse current               | 16 A                  |
| Increased snow load acc. to IEC 61215 | 5.4 kN/m <sup>2</sup> |

### THERMAL CHARACTERISTICS

|              |            |
|--------------|------------|
| NOCT         | 47 °C      |
| TC $I_{sc}$  | 0.042 %/°C |
| TC $V_{oc}$  | -0.33 %/°C |
| TC $P_{mpp}$ | -0.45 %/°C |

### ADDITIONAL DATA

|                                      |                          |
|--------------------------------------|--------------------------|
| Power tolerance <sup>1</sup>         | +/- 3 %                  |
| SolarWorld Plus-Sorting <sup>1</sup> | $P_{flash} \geq P_{max}$ |
| Junction box                         | IP65                     |
| Connector                            | MC4                      |
| Module Efficiency                    | 14.9%                    |



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



1) The output identified by SolarWorld ( $P_{flash}$ ) is always higher than the nominal output ( $P_{max}$ ) of the module.

SolarWorld AG reserves the right to make specification changes without notice. This data sheet complies with the requirements of EN 50380. Sunmodule panels are manufactured in ISO 9001:2000 certified facilities