

Sunmodule® SW 150 mono R6A



Data Sheet



Produced in Germany,
the center for solar technology



TUV Power controlled:
Lowest measuring tolerance in industry



25 year performance warranty and
5 year product warranty



SolarWorld AG relies on Germany as its technology location, thereby ensuring sustainable product quality.

The TUV Rheinland Power controlled inspection mark guarantees that the nominal power indicated for solar modules is inspected at regular intervals and thus ensured. The deviation to TUV is maximum 2 percent.

Resistant to extreme weather conditions: SolarWorld modules, tested and certified, are resistant against sandstorms, high winds or saline environments.

Sunmodule[®] SW 150 mono R6A



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

| | | SW 150 |
|-----------------------------|-----------|--------|
| Maximum power | P_{max} | 150 Wp |
| Open circuit voltage | U_{oc} | 22.8 V |
| Maximum power point voltage | U_{mpp} | 18.4 V |
| Short circuit current | I_{sc} | 8.85 A |
| Maximum power point current | I_{mpp} | 8.37 A |

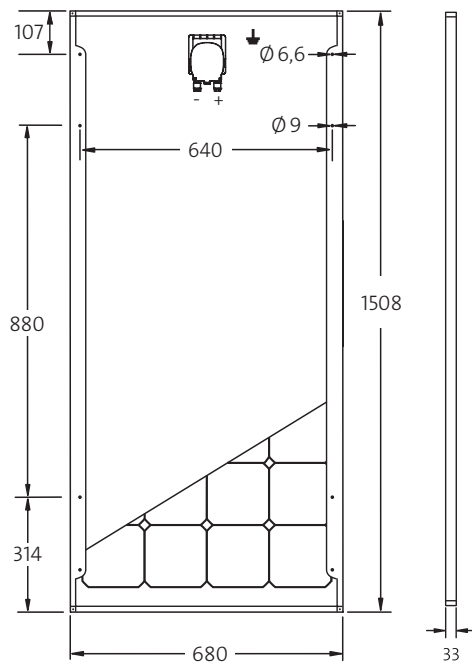
Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power controlled)

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

| | | SW 150 |
|-----------------------------|-----------|----------|
| Maximum power | P_{max} | 114.4 Wp |
| Open circuit voltage | U_{oc} | 21.0 V |
| Maximum power point voltage | U_{mpp} | 16.9 V |
| Short circuit current | I_{sc} | 7.22 A |
| Maximum power point current | I_{mpp} | 6.76 A |

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.



COMPONENT MATERIALS

| | |
|------------------|----------------------------------|
| Cells per module | 36 |
| Cell type | Mono crystalline |
| Cell dimensions | 156 mm x 156 mm |
| Front | Tempered safety glass (EN 12150) |
| Back | Film, white |
| Frame | Clear anodized aluminum |
| J-Box | IP65 |

DIMENSIONS / WEIGHT

| | |
|--------|---------|
| Length | 1508 mm |
| Width | 680 mm |
| Height | 33 mm |
| Weight | 11.8 kg |

THERMAL CHARACTERISTICS

| | |
|--------------|-----------|
| NOCT | 46 °C |
| TK I_{sc} | 0.044 %/K |
| TK U_{oc} | -0.31 %/K |
| TK P_{mpp} | -0.43 %/K |

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

| | |
|------------------------------|-----------------------------|
| Power sorting | -5 Wp / +5 Wp |
| Maximum system voltage SC II | 1000 V |
| Maximum reverse current | 15 A |
| Load / dynamic load | 5.4 / 2.4 kN/m ² |
| Number of bypass diodes | 2 |
| Operating range | -40 °C to +85 °C |



www.tuv.com
ID 0000039351



ORDERING INFORMATION

| Order number | Description |
|--------------|---------------------------|
| 82000150 | Sunmodule SW 150 mono R6A |