# Sunmodule®
# SW 150 poly R6A

SOLARWORLD
REAL VALUE

*Data sheet*

Quality modules made in Germany

Produced in Germany,
the center for solar technology

TÜVRheinland CERTIFIED
www.tuv.com
ID 0000039351

TUV Power controlled:
Lowest measuring tolerance in industry

WARRANTY

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.

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## PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

| | | SW 150 |
|---|---|---|
| ***Maximum power*** | $P_{max}$ | 150 Wp |
| ***Open circuit voltage*** | $U_{oc}$ | 22.5 V |
| ***Maximum power point voltage*** | $U_{mpp}$ | 18.3 V |
| ***Short circuit current*** | $I_{sc}$ | 8.81 A |
| ***Maximum power point current*** | $I_{mpp}$ | 8.27 A |

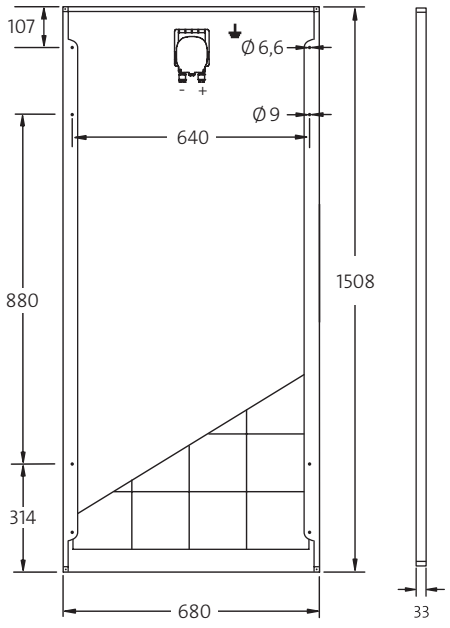
Measuring tolerance ($P_{max}$) traceable to TUV Rheinland: +/- 2% (TUV Power controlled)

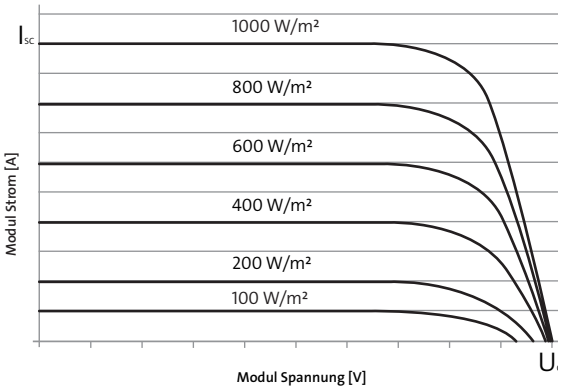
*STC: 1000W/m², 25°C, AM 1.5

## PERFORMANCE AT 800 W/m², NOCT, AM 1.5

| | | SW 150 |
|---|---|---|
| ***Maximum power*** | $P_{max}$ | 110.1 Wp |
| ***Open circuit voltage*** | $U_{oc}$ | 20.5 V |
| ***Maximum power point voltage*** | $U_{mpp}$ | 16.6 V |
| ***Short circuit current*** | $I_{sc}$ | 7.17 A |
| ***Maximum power point current*** | $I_{mpp}$ | 6.62 A |

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 100% (+/-2%) of the STC efficiency (1000 W/m²) is achieved.




## DIMENSIONS

| | |
|---|---|
| ***Length*** | 1508 mm |
| ***Width*** | 680 mm |
| ***Height*** | 33 mm |
| ***Frame*** | Clear anodized aluminum |
| ***Weight*** | 11.8 kg |

## COMPONENT MATERIALS

| | |
|---|---|
| ***Cells per module*** | 36 |
| ***Cell type*** | Poly crystalline |
| ***Cell dimensions*** | 156 mm x 156 mm |
| ***Front*** | tempered glass (EN 12150) |

## THERMAL CHARACTERISTICS

| | |
|---|---|
| ***NOCT*** | 46 °C |
| ***TK $I_{sc}$*** | 0,051 %/K |
| ***TK $U_{oc}$*** | -0,31 %/K |
| ***TK $P_{mpp}$*** | -0,41 %/K |

## ADDITIONAL DATA

| | |
|---|---|
| ***Power sorting*** | +/- 5 % |
| ***Junction box*** | IP 65 |

## PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

| | |
|---|---|
| ***Maximum system voltage SC II*** | 1000 V |
| ***Maximum reverse current*** | 15 A |
| ***Load / dynamic load*** | 5.4 / 2.4 kN/m² |
| ***Number of bypass diodes*** | 2 |
| ***Operating range*** | -40°C bis +85°C |

## ORDERING INFORMATION

| ***Order number*** | ***Description*** |
|---|---|
| ***82000148*** | Sunmodule SW 150 poly R6A |

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APPROVED PRODUCT

2016-02-12 EN

SolarWorld AG reserves the right to make specification changes without notice. This data sheet complies with the requirements of EN 50380.