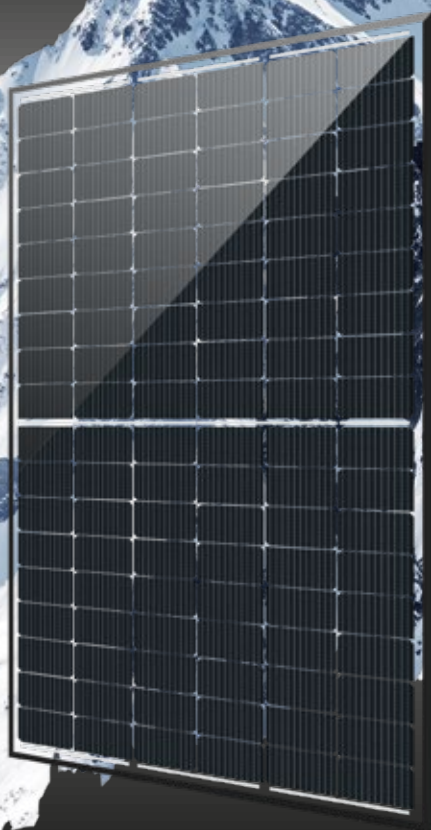




SwissWatt One AG

Swiss Know-how
Unique design

The Module
**DAVOS DIAMOND
2.0 / BF⁺**



40-year product warranty
40-year linear performance guarantee



Hail class 4



Only 0.25% linear degradation



Extremely durable: 8000 PA



Highest temperature resistance
-45 bis 88°C



Up to >22.7 % efficiency
Up to 26% cell conversion efficiency



Swiss company
Swiss guarantor



Upgraded warranty
In case of warranty, we replace the module free of charge
with the latest generations.

DAVOS DIAMOND 2.0 - 440W / 445W / 450W

Positive performance due to low degradation.

Operating conditions

| | |
|-----------------------|--|
| Operating temperature | -45 to 88°C |
| Static load | 8000 Pa* (snow) / 4800 Pa (wind load) |
| Hail | Hail class 4 - Ø40 mm / 29.2 g / at 27.5 m/s |

Mechanical specifications

| | |
|---------------------------------------|---|
| Weight | 24 kg ± 3.5 % |
| Frames | Anodized aluminium alloy (black) |
| Dimensions | 1722 x 1134 x 30 mm |
| Cell type | Bifacial, n-type TopCon mono - half cut M10 |
| Number of cells | 108 cells (6*18) with multibusbar |
| Front & rear sides | Each 2.0 mm solar glass high-transparency / anti-reflective |
| Cable cross-section size/junction box | 4 mm², cable length 1200 mm. MC4 EVO 2 / IP68 / 3 diodes |

Electrical specifications

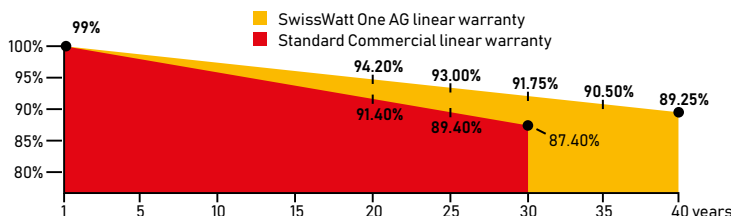
| | 440 | 445 | 450 |
|---|---------------------|--------|--------|
| Voltage at maximum power (Vmpp / V) | 33.21 | 33.39 | 33.57 |
| Current at maximum power (Impp / A) | 13.25 | 13.33 | 13.41 |
| Open-circuit voltage (Voc / V) | 39.16 | 39.35 | 39.54 |
| Short-circuit current (Isc / A) | 13.88 | 13.96 | 14.04 |
| Efficiency/module efficiency ηm | 22.53% | 22.78% | 23.04% |
| Temperature coefficient of Pmpp Tk (Pmpp) | -0.30%/°C | | |
| Temperature coefficient of Isc Tk (Isc) | +0.040%/°C | | |
| Temperature coefficient of Voc Tk (Voc) | -0.28%/°C | | |
| Working nominal temperature NOCT (°C) | 43±2°C | | |
| Maximum series fuse (A) | 30 A | | |
| Maximum system voltage DC (V) | 1500V _{DC} | | |

Possible performance enhancement due to bifaciality

| | 440 | 445 | 450 |
|--------------|--------|--------|--------|
| 5% Pmpp (W) | 462.00 | 467.25 | 472.50 |
| 10% Pmpp (W) | 485.10 | 490.61 | 496.13 |
| 15% Pmpp (W) | 509.36 | 515.14 | 520.93 |
| 30% Pmpp (W) | 534.82 | 540.90 | 546.98 |
| 35% Pmpp (W) | 561.56 | 567.95 | 574.33 |

| NMOT* | 440 | 445 | 450 | Logistics information |
|---------------------------------|-------|-------|-------|-------------------------|
| Rated output (Pmpp / Wp) | 337 | 340 | 344 | Container type |
| Rated voltage (Vmpp / V) | 31.79 | 31.96 | 32.13 | Number of pallets |
| Rated current (Impp / A) | 10.59 | 10.65 | 10.71 | Units per pallet |
| Open-circuit voltage (Voc / V) | 37.49 | 37.67 | 37.85 | Total number of modules |
| Short-circuit current (Isc / A) | 11.18 | 11.24 | 11.30 | 936 |

*Irradiance level: 800 W/m²; Ambient temperature: 20°C



Technical Parameters and Disclaimer

The technical parameters in this data sheet may vary regionally. SwissWatt One AG makes no warranty as to their complete accuracy. Due to continuous innovations and product improvements, SwissWatt One AG reserves the right to change the information in this data sheet at any time without prior notice. Customers should always refer to the latest version of this data sheet and use it as an integral, legally binding document. In case of discrepancies between the German version and other language versions, the German version shall prevail. **Note:** Please read the safety and installation manual carefully before using this product. Subject to change without notice. Developed in Switzerland and assembled in Asia. Swiss expertise: Customer service, delivery, and warranty processing.

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Standard Test Conditions (STC): Air mass: 1.5 1.5 AM / Irradiance: 1000 W/m² / Cell temperature: 25°C / Measurement tolerance: ±3% (Pmax), ±10% (Vmax, Impp, VOC, ISC).

Warranty Conditions: For details on the warranty terms, please visit www.swo.swiss. Possible light-induced degradation of performance is not considered. Additional yields from bifaciality are not guaranteed and depend on the installation location and method.

Swiss & EU: PV-DC connectors must comply with standards (IEC 62548, NIN 2020, and SN EN 62852), be of the same type and manufacturer, be certified according to SN EN 62852 and EU standard EN 50618, and be installed using approved tools to ensure safety, efficiency, and warranty claims.

CE ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety

Fire protection class A
pursuant to IEC 61730 - 2 (UL790)

Compact Design
1.72 m x 1.13 m

Power curves (440 W)

