

ONE OF THE STRONGEST

PANELS ON THE PLANET

DAVOS ULTRA

500W ^{UP TO}



Swiss know-how,
unique design



**GRANIS
NANO**
SwissWatt One AG

True bifacial performance through transparency



40-Year Warranty
Product & Performance Warranty



Hail Class 4
Resists hailstones up to 4 cm in diameter



360° Shading Technology
Maximum efficiency under shading conditions



Outstanding Durability
Only 0.25 % degradation = approx. 90 %
performance after 40 years guaranteed



Swiss Company
Swiss Warranty Provider



Module Efficiency
Up to 24.6 % module efficiency

DAVOS ULTRA 490/495/500W

Positive extra output due to low degradation.

Operating Conditions

Operating temperature	-45 bis 88°C
Static load	5400 Pa* (SNOW) / 3000 Pa (WIND)
Hail Class	Hail Class 4 - Ø40mm/29.2g/ bei 27.5m/s

Mechanical Characteristics

Weight	25 Kg
Frame	anodized aluminum alloy (black)
Dimensions	1800x 1134x 30 mm
Cell type	BC
Number of cells	108 Zellen
Front / back	2 x 2 mm anti-reflective solar glass / transparency
Cable connection / junction box	4 mm ² ; cable approx. 110 cm, MC4EVO2 / IP68, 3 diodes

Electrical Characteristics

	490	495	500
Voltage at maximum power (Vmpp / V)	35.69	35.80	35.82
Current at maximum power (Impp / A)	13.73	13.83	13.98
Open-circuit voltage (Voc / V)	42.63	42.87	42.98
Short-circuit current (Isc / A)	14.36	14.40	14.49
Module efficiency (%)	24.00%	24.24%	24.60%
Temperature coefficient Tk (Pmpp)	-0.26%/°C		
Temperature coefficient Isc Tk (Isc)	+0.050%/°C		
Temperature coefficient Voc Tk (Voc)	-0.22%/°C		
Nominal Operating Temperature NOCT (°C)	44±2°C		
Max. series fuse rating (A)	30 A		
Max. system voltage DC (V)	1500V _{DC}		

Possible Bifacial Gain

	490	495	500
5%Pmpp (W)	514.5	519.75	525.0
10%Pmpp (W)	514.5	544.5	550.0

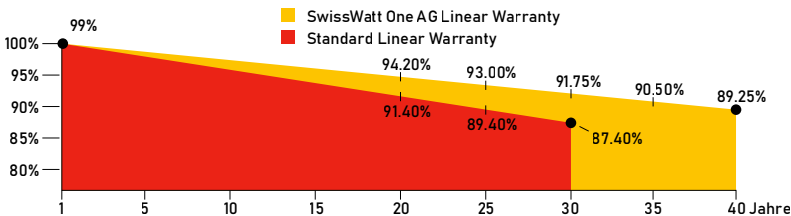
360 Shading Technology - Highest Efficiency under Shading

Innovative cell technology reroutes current when individual cells are shaded - allowing the remaining cells to continue delivering energy.

NMOT*

	490	495	500	Logistics:
Nominal power (Pmax / Wp)	376	380	384	Container type
Nominal voltage (Vmpp / V)	33.64	33.76	33.89	Number of pallets
Nominal current (Impp / A)	11.18	11.26	11.38	Units per pallet
Open-circuit voltage (Voc / V)	40.56	40.78	40.98	Total modules per container
Short-circuit current (Isc / A)	11.59	11.63	11.69	888

*Irradiance 800 W/m²; ambient temperature 20 °C



Technical Specifications and Disclaimer: The technical specifications in this data sheet may vary by region. SwissWatt One AG does not guarantee their complete accuracy. In the event of discrepancies between the German version and other language versions, the German version shall prevail. Note: Please read the safety and installation instructions carefully before using this product. Subject to technical changes. All information is provided without warranty. Designed in Switzerland and assembled in Asia. Swiss expertise: customer service, delivery, and warranty processing.

Standard Test Conditions (STC)

Air mass: 1.5 AM / Irradiance: 1000 W/m² / Cell temperature: 25 °C / Measurement tolerance: ±3 % (Pmax), ±10 % (Vmax, Impp, Voc, Isc)

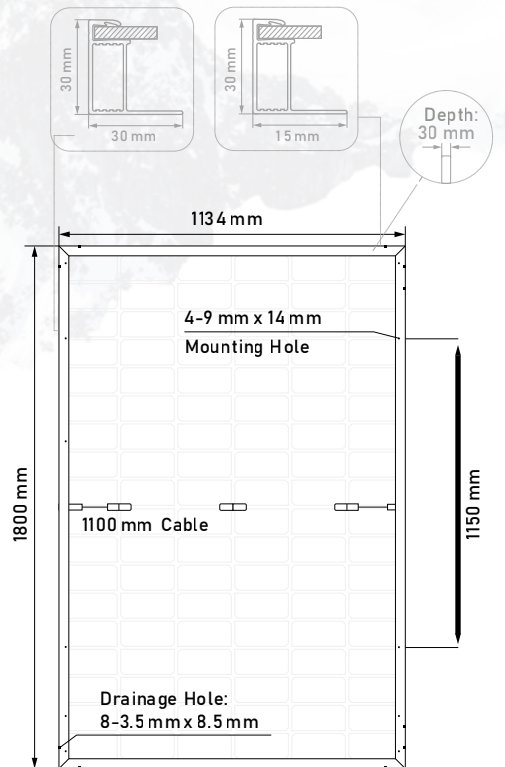
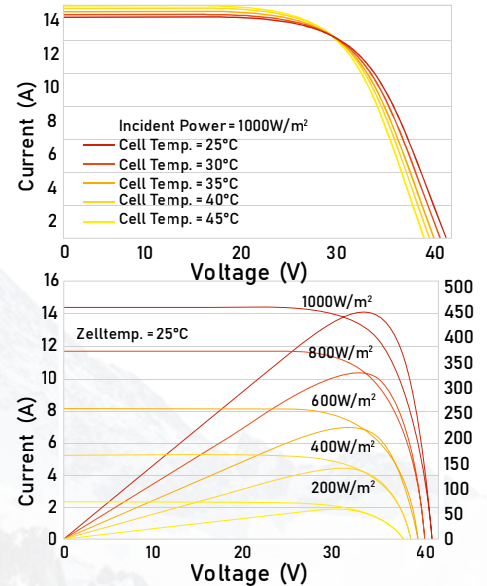
Warranty Conditions

For details on warranty conditions, please refer to www.swo.swiss. Any light-induced performance degradation is not taken into account. Additional yield from bifaciality is not guaranteed and depends on the installation site and configuration.

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Power curve (500 W)



SWISSOLAR



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