For a Free Quote:

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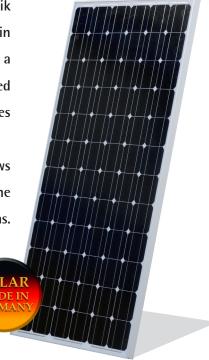


Solar Panel Guide Specification Data Sheet

Sunset Energietechnik GmbH AS-72 275-305 AS 295/72

SUNSET AS Series 275 - 305 W_P

As a solar specialist with over 35 years of experience, SUNSET Energietechnik GmbH makes a significant contribution to a ground breaking progress in solar technology. A result of our long term experience is the AS series, a photovoltaic module with mono crystalline cells. The AS series is designed for applications with high power requirements. These outstanding modules produce a continuous and reliable yield, even under extreme conditions. The permanently sealed laminate protects the cells from humidity, allows thermal expansion and provides electrical insulation. The modules of the SUNSET AS series are suitable for on-grid and special off-grid applications.



SUNSET AS series at a glance

- 72 high-performance mono crystalline silicon solar cells made from SUNsilicon® with an efficiency up to 21 %
- Textured cell surface for particularly high electricity yields
- Use of tempered white high resistant solar glass, EVA plastic and an anodised aluminium frame for long-term use
- Certified production facility in Germany
- Also suitable for SUNpower Roof integration system and SUNpremium[®] field mounting system

The world's future energy ^o



Module series /72 AS 275, 280, 285, 290, 295, 300, 305/72

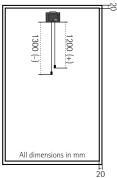
Technical specifications AS (STC)*			275	280	285	290	295	300	305
Nominal power (±5% production tolerance)	P_{\max}	$[W_p]$	275	280	285	290	295	300	305
Rated current	I_{MP}	[A]	7.65	7.75	7.85	7.95	8.05	8.15	8.25
Rated voltage	V_{MP}	[V]	35.9	36.1	36.3	36.4	36.6	36.7	37.0
Short circuit current	I_{SC}	[A]	8.10	8.20	8.30	8.40	8.50	8.60	8.70
Open circuit voltage	V_{oc}	[V]	45.4	45.7	45.9	46.0	46.2	46.3	46.5

Rated values under Standard Test Conditions (STC: 1000 W/m², 25°C, spectrum AM 1,5)*

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Technical specification	s AS (NO	OCT)*	275	280	285	290	295	300	305
Nominal power	P_{max}	$[W_p]$	199	202	206	210	213	217	221
Rated current	I_{MP}	[A]	6.15	6.23	6.31	6.39	6.47	6.55	6.63
Rated voltage	V_{MP}	[V]	32.3	32.5	32.6	32.7	32.9	33.0	33.3
Short circuit current	I _{sc}	[A]	6.49	6.57	6.65	6.73	6.81	6.89	6.97
Open circuit voltage	V_{oc}	[V]	41.8	42.0	42.2	42.3	42.5	42.6	42.8

Rated values under Nominal Operating Cell Temperature (NOCT: 800 W/m², 51± 2°C, spectrum AM 1,5)*



Characteristics for system design*

Protection class			II
System voltage	V_{SYS}	[V]	1000
Reverse current	I _R	[A]	20
Relative efficiency ratio (@200W/m² based on STC efficiency)		[%]	98.5

Temperature range (TC)		[°C]	-40 +85 (± 0)
Temperature coefficient I _{sc}	α	[%/K]	+ 0.040
Temperature coefficient V _{oc}	β	[%/K]	- 0.332
Temperature coefficient P _{MPP}	γ	[%/K]	- 0.47

Mechanical characteristics*

Front covering 4 mm solar glass (Anti Reflective)
Back covering multi layer foil
Type of cell mono crystalline
Dimensions 1973 x 997 x 46 mm (± 3 mm)
Weight 25.7 kg (± 1 kg)

Protection class junction box IP 65

Cable connection Multi Contact MC4 or. compatible

Heavy load test 5400 Pa

Bypass-Diodes (no./voltage) 3 / 1000 V

Frame (material/colour) aluminium / silver (black as option)

Over the years SUNSET Energietechnik GmbH has set high benchmarks with its high quality standards.

Continuous tests guarantee a consistently high level of quality. All modules undergo visual, mechanical, and electrical inspections. Each module is high voltage (HV) tested and examined by electro luminescence (EL). This is recognisable by means of the original SUNSET label, the serial number and the SUNSET guarantee:

- 5 years product warranty
- 10 years linear warranty for a power output of 90% (according to warranty terms)
- 25 years linear warranty for a power output of 80% (according to warranty terms)
- Our warranty terms will be handed out on request or can be found on our homepage (see below)
- EL picture and HV test of each module
- Registered at PV-Cycle, WEEE-Nr.: DE 68887899
- Certified according to IEC 61215 and IEC 61730
- Production facility certified according to ISO 9001, 14001 and 18001



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Specifications subject to technical changes.

* All values/parameters vary up to ±10%, unless stated otherwise

Partner: