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Solar Panel Guide Specification Data Sheet

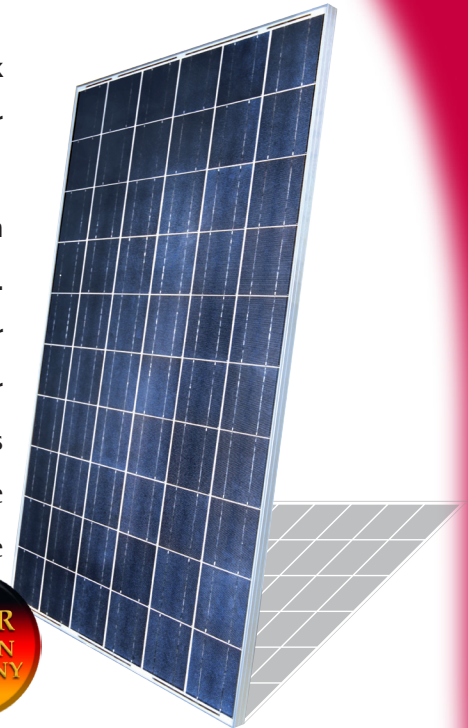
**Sunset Energietechnik GmbH
PM-60 SUNplatinum® 240-270
PM 245/60**

Also available on the web at
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SUNSET SUNplatinum[®] PM Series 240 - 270 W_p

As a solar specialist with 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 PM SUNplatinum[®] series, a photovoltaic module with poly crystalline cells and thin-glass-glass technology. These outstanding modules produce a continuous and reliable yield, even under extreme conditions. By running as glass-glass module, longevity is further increased and the load characteristics are further improved. Ultrathin glasses enable minimal module weight in combination with highest stability, due to the possibility of framing. Therefore modules of the SUNplatinum[®] series are able to replace known module types easily. Modules of the SUNplatinum[®] series are suitable for all common on-grid applications and as frameless version excellent for building integrations (BIPV).



SUNSET PM SUNplatinum[®] series at a glance

- 60 high-performance poly 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
- Translucent, therefore excellent for BIPV ("Building Integrated PV") applications
- Increased stability against environmental conditions (damp/salt/ammoniac)
- Certified production facility in Germany
- Extended warranty terms compared to conventional modules

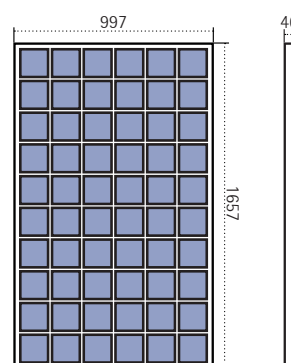
The world's future energy[®] by

Module series SUNplatinum® /60

PM 240, 245, 250, 255, 260, 265, 270 /60

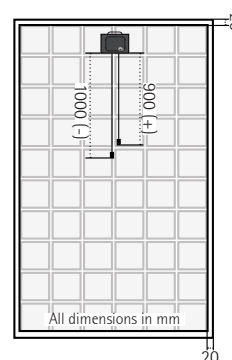
Technical specifications PM (STC)*			240	245	250	255	260	265	270
Nominal power (±5% production tolerance)	P_{max}	[W _p]	240	245	250	255	260	265	270
Rated current	I_{MP}	[A]	7.95	8.05	8.17	8.32	8.45	8.57	8.70
Rated voltage	V_{MP}	[V]	30.3	30.4	30.5	30.6	30.7	30.9	31.0
Short circuit current	I_{SC}	[A]	8.50	8.65	8.80	8.85	8.90	9.00	9.10
Open circuit voltage	V_{OC}	[V]	37.2	37.3	37.4	37.4	37.4	37.6	37.9

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



Technical specifications PM (NOCT)*			240	245	250	255	260	265	270
Nominal power	P_{max}	[W _p]	177	181	184	188	192	195	199
Rated current	I_{MP}	[A]	6.20	6.28	6.38	6.49	6.59	6.69	6.79
Rated voltage	V_{MP}	[V]	28.6	28.7	28.8	28.9	29.0	29.1	29.2
Short circuit current	I_{SC}	[A]	6.79	6.91	7.03	7.07	7.11	7.19	7.27
Open circuit voltage	V_{OC}	[V]	34.9	35.0	35.0	35.0	35.2	35.5	35.7

Rated values under Nominal Operating Cell Temperature (NOCT: 800 W/m², 43± 2°C, spectrum AM 1,5)*



Characteristics for system design*

Protection class		II	Temperature range (TC)	[°C]	-40 ... +85 (± 0)
System voltage	V_{SYS}	[V]	1000	Temperature coefficient I_{SC}	α [%/K] + 0.039
Reverse current	I_R	[A]	20	Temperature coefficient V_{OC}	β [%/K] - 0.311
Relative efficiency ratio (@200W/m ² based on STC efficiency)		[%]	98.5	Temperature coefficient P_{MPP}	γ [%/K] - 0.46

Mechanical characteristics*

Front covering	2.1 mm solar glass (Anti Reflective)	Protection class	junction box IP 65
Back covering	2.1 mm solar glass	Cable connection	Multi Contact MC4 or. compatible
Type of cell	poly crystalline	Heavy load test	5400 Pa
Dimensions	1657 x 997 x 46 mm (± 3 mm)	Bypass-Diodes (no./voltage)	3 / 1000 V
Weight	22.4 kg (± 1 kg)	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:

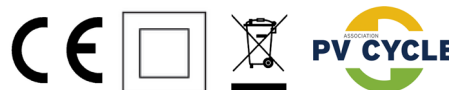
- 10 years product warranty
- 10 years linear warranty for a power output of 90% (according to warranty terms)
- 30 years linear warranty for a power output of 80% (according to warranty terms)
- Our warranty terms will be handed out on request or can be found on our homepage (see below)
- EL picture and HV test of each module
- Registered at PV-Cycle, WEEE-Nr.: DE 68887899
- Certified according to IEC 61215, 61730, 61701, 62716 and MIL-STD-810G
- Production facility certified according to ISO 9001, 14001 and 18001

Partner:



SUNSET Energietechnik GmbH

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Specifications subject to technical changes.

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