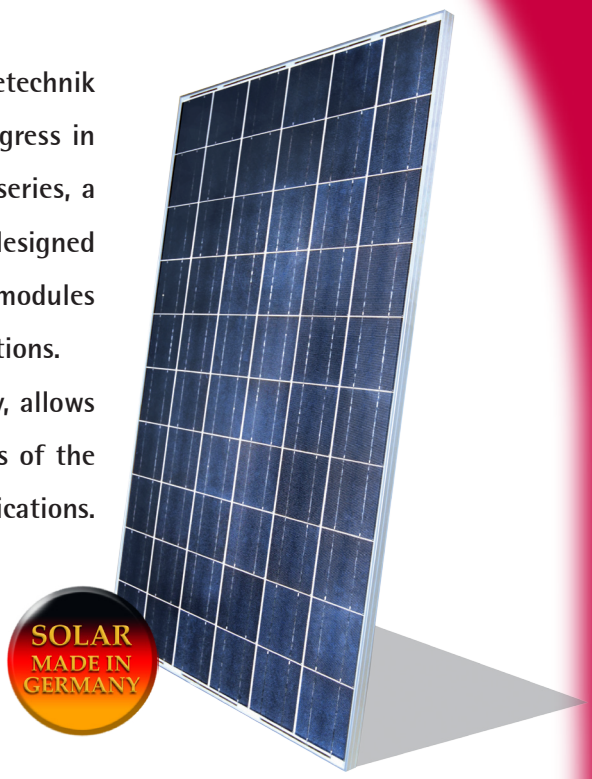
SUNSET
PX Series 255 - 285 W_P

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 PX series, a photovoltaic module with poly crystalline cells. The PX 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 PX series are suitable for on-grid and special off-grid applications.



SUNSET PX 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
- Certified production facility in Germany
- Also suitable for SUNpower Roof integration system and SUNpremium® field mounting system

The world's future energy ®

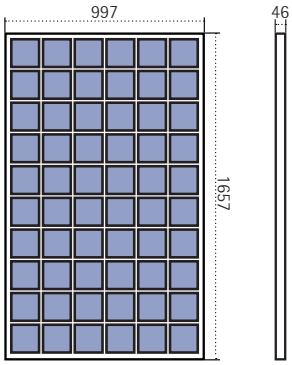
by SUNSET SOLAR

www.sunset-solar.com

Module series /60
PX 255, 260, 265, 270, 275, 280, 285/60

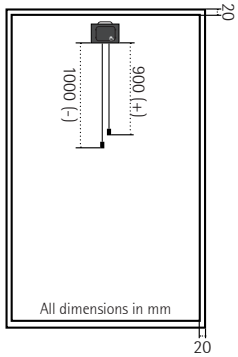
Technical specifications PX (STC)*			255	260	265	270	275	280	285
Nominal power (±5% production tolerance)	P_{max}	[W_p]	255	260	265	270	275	280	285
Rated current	I_{MP}	[A]	8.32	8.45	8.57	8.70	8.77	8.84	8.91
Rated voltage	V_{MP}	[V]	30.6	30.7	30.9	31.0	31.3	31.6	32.0
Short circuit current	I_{SC}	[A]	8.85	8.90	9.00	9.10	9.20	9.30	9.40
Open circuit voltage	V_{OC}	[V]	37.4	37.4	37.6	37.9	38.1	38.4	38.6

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



Technical specifications PX (NOCT)*			255	260	265	270	275	280	285
Nominal power	P_{max}	[W_p]	184	188	192	195	199	202	206
Rated current	I_{MP}	[A]	6.69	6.79	6.89	7.00	7.05	7.11	7.16
Rated voltage	V_{MP}	[V]	27.5	27.6	27.7	27.9	28.1	28.4	28.8
Short circuit current	I_{SC}	[A]	7.09	7.13	7.21	7.30	7.38	7.46	7.54
Open circuit voltage	V_{OC}	[V]	34.4	34.4	34.6	34.9	35.1	35.3	35.5

Rated values under Nominal Operating Cell Temperature (NOCT: 800 W/m², 52± 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]	+ 0.037
Reverse current	I_R	[A]	20	Temperature coefficient V_{OC}	β	[%/K]	- 0.325
Relative efficiency ratio (@200W/m² based on STC efficiency)		[%]	97	Temperature coefficient P_{MPP}	γ	[%/K]	- 0.456

Mechanical characteristics*

Front covering	4 mm solar glass (Anti Reflective)	Protection class	junction box IP 65
Back covering	multi layer foil	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	21.7 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:

- 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

Partner:

Qualified, IEC 61215
Safety tested, IEC 61730
Heavy Snow Load tested
Periodic inspection

SUNSET Energietechnik GmbH
• Industriestraße 8-22 • D-91325 Adelsdorf
• Telefon +49 91 95/94 94-0 • Telefax +49 91 95/94 94-290
• E-Mail: support@sunset-solar.com
• Web: www.sunset-solar.com

Specifications subject to technical changes.

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