



Guaranteed positive output tolerance of 0...+5 Wp by single measuring



Maximum 5000 Pa snow load



3,2 mm anti-reflective glass



Maximum stability through aluminium frame Soft-Grip



10 years manufacturer's warranty  
25 years linear performance guarantee

## Polycrystalline 60 cells

Type EXP ... 156-60	225W* °	230W* °	235W* °	240W* °	245W* °	250W* °	260W* °	270W	275W	280W
Nominal output P <sub>mpp</sub>	225Wp	230Wp	235Wp	240Wp	245Wp	250Wp	260Wp	270Wp	275Wp	280Wp
Nominal voltage U <sub>mpp</sub>	29,10V	29,50V	29,70V	30,25V	30,36V	30,70V	30,94V	31,12V	31,5V	31,69V
Nominal current I <sub>mpp</sub>	7,80A	7,92A	7,94A	7,98A	8,13A	8,18A	8,45A	8,71A	8,70A	8,89A
Short circuit current I <sub>sc</sub>	8,39A	8,50A	8,52A	8,55A	8,67A	8,71A	9,03A	9,19A	9,25A	9,31A
Open circuit voltage U <sub>oc</sub>	36,60V	36,80V	36,80V	37,20V	37,50V	37,80V	38,10V	38,21V	38,6V	39,46V
Module conversion efficiency	14,10%	14,44%	14,44%	14,75%	15,06%	15,59%	15,98%	16,60%	16,70%	17,21%

Electrical characteristics (at Standard Test Conditions (STC) of irradiance 1000W/m<sup>2</sup>, spectrum AM 25°C)

\* = on demand

° = tolerance +/- 5%

### Design

Frontside	3,2 mm anti-reflective glass
Cells	60 polycrystalline high efficiency cells 156x156 mm (6")-5BB
Backside	Composite film
Frame	40mm silver anodized aluminium frame

### Power connection

Socket	Protection class IP 67 (3 bypass diodes)
Wire	Approx 110 cm / 4 mm <sup>2</sup>
Plug-in system	Plug / Socket IP 67

### Mechanical data

LxWxH	1650 x 992 x 40 mm
Weight	18 kg with frame

### Temperature coefficient

Voltage U <sub>oc</sub>	-0,30%/K
Current I <sub>sc</sub>	+0,04%/K
Output P <sub>mpp</sub>	-0,42%/K

### Limit values

System voltage	1000 VDC
NOCT*	45°C +/- 2K
Max. load-carrying capacity	5400 N/m <sup>2</sup> tested to 8000 Pa
Reverse current feed I <sub>R</sub>	16,0 A

\*NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/sec; Temperature 20°C)

