

# Powermodules

SPP 220 | 225 | 230 | 235 | 240

**Modulpreis  
ab 298,80 €**



SolarPark supplies modules of the highest production quality. This is because the company uses only the highest quality raw materials and innovative automation technology. Working with our strategic partner, Energiebau, we are also able to offer you a number of additional services including comprehensive warranty protection. Positive output sorting means that only those SolarPark modules that achieve the specified nominal output or above will be supplied.



## SolarPark modules and the LORENZ® mounting system

- All SolarPark power modules have been optimised for use with Energiebau's LORENZ® mounting system

## Highest quality standards

- Fully automated production at SolarPark and stringent quality control procedures minimise errors in the manufacturing process, guaranteeing the highest quality standards.
- Positive output sorting guarantees high specific yields.
- Highly transparent, low iron safety glass is a technical requirement for maximum energy yield.
- Module frame/glass composite and junction box are glued with high-grade silicone for a lasting effect.
- Sealing material protects the contact area of the junction box against corrosion and guarantees electrical insulation.

## Product and performance warranty

SolarPark offers its customers the industry-leading 10/25 warranty: A 10-year product warranty and a 25-year linear performance warranty\*. In the event of warranty claims, as a strategic partner of SolarPark in your area, Energiebau will process your claim for you.

\* In the first year, performance warranty at 96% of the specified  $P_n$ , followed by an annual decrease of 0.66%, corresponding to a guaranteed minimum performance of 80.2% of the  $P_n$  in the 25th year

## Warranty

As a direct contract partner of specialist solar companies, Energiebau guarantees the same warranty rights when purchasing SolarPark modules as when purchasing other European or German modules.

## Product liability

With respect to product liability, any possible claims are to be registered directly with Energiebau in Germany.

<b>Models available:</b>	SPP 220/225/230/235/240
<b>Dimensions:</b>	1675 x 1001 x 34 mm
<b>Net weight:</b>	19 kg/unit
<b>Gross weight:</b>	620 kg/pallet (30 units)
<b>Certificates:</b>	IEC 61215/61730, ISO 9001/14001

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## Output

### Standard test conditions (STC)

STC: 1000 W/m<sup>2</sup>, 25°C, AM 1.5

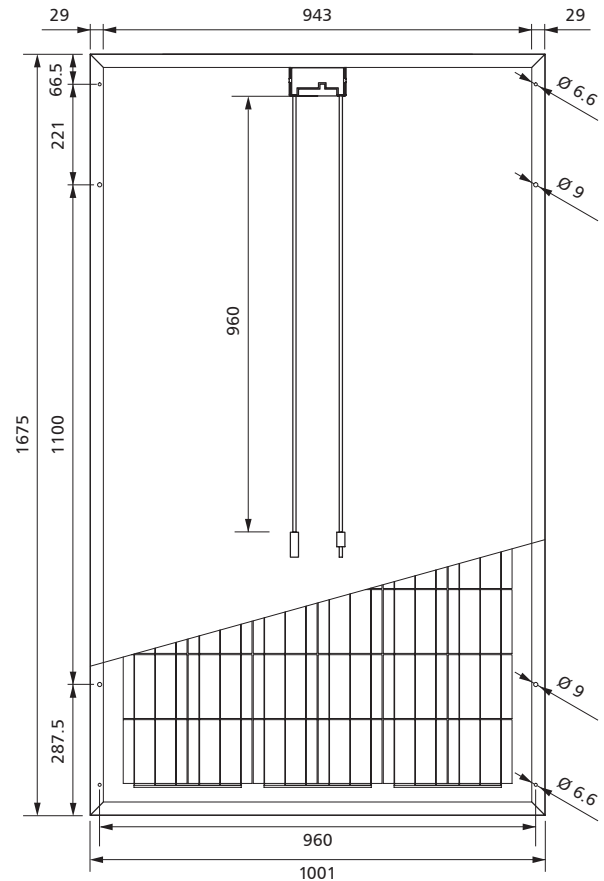
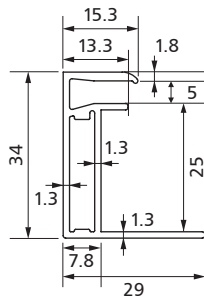
at 200 W/m<sup>2</sup>, 95% of the STC output is achieved (EN 60904-1)

	P <sub>n</sub> (Wp)	V <sub>OC</sub> (V)	V <sub>mpp</sub> (V)	I <sub>sc</sub> (A)	I <sub>mpp</sub> (A)
SPP220	220	36.5	29.2	8.09	7.55
SPP225	225	36.8	29.6	8.17	7.62
SPP230	230	36.9	29.8	8.26	7.73
SPP235	235	37.0	30.1	8.35	7.84
SPP240	240	37.2	30.3	8.44	7.93

### Normal operating temperature of the cell (NOCT)

STC: 800 W/m<sup>2</sup>, 20°C, AM 1.5

	P <sub>n</sub> (Wp)	V <sub>OC</sub> (V)	V <sub>mpp</sub> (V)	I <sub>sc</sub> (A)	I <sub>mpp</sub> (A)
SPP220	158	33.1	26.3	6.69	6.01
SPP225	161	33.2	26.6	6.76	6.09
SPP230	165	33.3	26.8	6.83	6.16
SPP235	170	33.4	27.2	6.75	6.27
SPP240	174	33.6	27.3	6.79	6.38



### Solar cell

- Cell type: polycrystalline silicon 6" (156 x 156 mm)
- Cell configuration: 10 x 6, total of 60 cells

### Safety and quality

- IEC 61215, IEC 61730
- VDE, CE and MCS
- Fire resistance class C certification as per UL 1703/UL 790
- Produced in an ISO 9001/14001 certified factory in Korea

### Temperature coefficients (TC)

- NOCT: 46°C
- TC short-circuit current (TC I<sub>sc</sub>): 0.034%/K
- TC open circuit voltage (TC V<sub>OC</sub>): -0.35%/K
- TC nominal output (TC P<sub>n</sub>): -0.45%/K

### Dimensions/weight

- 1675 x 1001 x 34 mm (L x W x H)/19 kg

### Warranty

- 10-year product warranty
- 25-year linear performance warranty:
  - Year 1: 96% of P<sub>n</sub>
  - Years 2–24: Linear reduction by 0.66%
  - Year 25: 80.2% of P<sub>n</sub>

### Additional information

- Highly transparent, low iron safety glass (3.2 mm)
- Composite film on the back
- Silicone sealing material/casting compound
- EVA sheet
- Output measurement tolerance: +/- 3%
- Max. system voltage: 1000 V<sub>DC</sub> (protection class II)
- Max. reverse current capacity: 16 A
- Dimensions of junction box: 125 x 67 x 16 mm (B x L x H)
- Three bypass diodes
- IP65 protection
- Connectors: Original MC4 or MC3 (+, -)
- Max. load: Up to 5400 N/m<sup>2</sup> (550 kg/m<sup>2</sup>) [Increased snow load as per IEC 61215]