



Lightweight Flexible Photovoltaic Module Special Application Series

APPLICATIONS

Mobile applications, special solutions
building integrated and building applied PV

25.5 Wp – 335 Wp POWER RANGE

Tolerances

> 250 Wp: positive power tolerance -0/+5 W
100 – 250 Wp: -3.5/+3.5 W
< 100 Wp: -2.5/+2.5 W

HIGH RELIABILITY

IEC 61730
IEC 61215
IEC 62804-1
IEC 61701 Salt mist corrosion test
IEC 62716 Ammonia corrosion test
EN 13501-5 B_{ROOF}(t1) „Flying sparks test“

WARRANTY

5-year product warranty
10-year linear performance warranty
For special applications, outdoor and mobile applications

10-year product warranty
25-year linear performance warranty
For building integrated and building applied installations



Ultra-lightweight

Weight as low as 2.5 kg
per square meter.



Patented design

A patented design ensures that
the modules are only 2 mm thick.



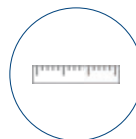
Flexibility

Their flexibility ensures that
the modules conform to the
corresponding substructure.



Easily mounted with a number of assembly options

The modules can be glued, screwed, riveted, or
mounted onto the substructure using existing
eyelets.



Customer-specific and project-specific solutions

Model size, shape, and color are customizable.



High energy yield

Light-trapping effect generated
by the lenticular surface.



| TECHNICAL DATA | |
|---------------------------------|--|
| Solar cells | 4BB polycrystalline solar cells (optional monocrystalline) |
| Maximum system voltage | 1000 V |
| Maximum over current protection | 20 A |
| Isc | 8.69 A poly / 9.15 A mono |
| Imp | 8.19 A poly / 8.63 A mono |
| Front sheet | Soil-resistant ETFE-Film |
| Encapsulation | Patented fibreglass-reinforced plastic |
| Back sheet | High resistant PET |
| Junction box | TÜV-certified (IP 67) with 3 bypass-diodes |
| Cables | 2 x 4 mm ² , 900 mm |
| Connector | PV4S |

| Module length | POLY | | | | | | | MONO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------|--------------|----------|----------|---------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|---------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|--|--|
| | Wp | Voc | Vmp | Wp | Voc | Vmp | Wp | Voc | Vmp | Wp | Voc | Vmp | Wp | Voc | Vmp | | | | | | | | | | | | | | | | | | | | | | | | |
| *2024 /1975 mm | 12 | 51 Wp | 7.62 Voc | 6.23 Vmp | 102 Wp | 15.23 Voc | 12.46 Vmp | 153.1 Wp | 22.85 Voc | 18.69 Vmp | 204.1 Wp | 30.46 Voc | 24.92 Vmp | 255 Wp | 38.08 Voc | 31.15 Vmp | 305 Wp | 45.69 Voc | 37.38 Vmp | 56.2 Wp | 8.00 Voc | 6.52 Vmp | 112.5 Wp | 16.01 Voc | 13.04 Vmp | 168.7 Wp | 24.01 Voc | 19.56 Vmp | 225 Wp | 32.02 Voc | 26.08 Vmp | 280 Wp | 40.02 Voc | 32.59 Vmp | 335 Wp | 48.03 Voc | 39.11 Vmp | | |
| *1868/ 1819 mm | 11 | 46.7 Wp | 6.98 Voc | 5.71 Vmp | 93.5 Wp | 13.96 Voc | 11.42 Vmp | 140.3 Wp | 20.94 Voc | 17.13 Vmp | 187.1 Wp | 27.92 Voc | 22.84 Vmp | 233.9 Wp | 34.90 Voc | 28.55 Vmp | 280.7 Wp | 41.88 Voc | 34.26 Vmp | 51.5 Wp | 7.34 Voc | 5.98 Vmp | 103.1 Wp | 14.67 Voc | 11.95 Vmp | 154.7 Wp | 22.01 Voc | 17.93 Vmp | 206.3 Wp | 29.35 Voc | 23.90 Vmp | 257.8 Wp | 36.69 Voc | 29.88 Vmp | 309.4 Wp | 44.02 Voc | 35.85 Vmp | | |
| *1706/ 1657 mm | 10 | 42.5 Wp | 6.35 Voc | 5.19 Vmp | 85 Wp | 12.69 Voc | 10.38 Vmp | 127.6 Wp | 19.04 Voc | 15.57 Vmp | 170.1 Wp | 25.38 Voc | 20.77 Vmp | 212.6 Wp | 31.73 Voc | 25.96 Vmp | 255 W | 38.08 Voc | 31.15 Vmp | 46.8 Wp | 6.67 Voc | 5.43Vmp | 93.7 Wp | 13.34 Voc | 10.86 Vmp | 140.6 Wp | 20.01 Voc | 16.30 Vmp | 187.5 Wp | 26.68 Voc | 21.73 Vmp | 234.4 Wp | 33.35 Voc | 27.16 Vmp | 280 Wp | 40.02 Voc | 32.59 Vmp | | |
| *1549/ 1500 mm | 9 | 38.2 Wp | 5.71 Voc | 4.67 Vmp | 76.5 Wp | 11.42 Voc | 9.34 Vmp | 114.8 Wp | 17.13 Voc | 14.02 Vmp | 153.1 Wp | 22.85 Voc | 18.69 Vmp | 191.4 Wp | 28.56 Voc | 23.36 Vmp | 229.6 Wp | 34.27 Voc | 28.03 Vmp | 42.2 Wp | 6.00 Voc | 4.89 Vmp | 84.4 Wp | 12.01 Voc | 9.78 Vmp | 126.5 Wp | 18.01 Voc | 14.67 Vmp | 168.7 Wp | 24.01 Voc | 19.56 Vmp | 210.9 Wp | 30.02 Voc | 24.45 Vmp | 253.1 Wp | 36.02 Voc | 29.33 Vmp | | |
| *1389/ 1340 mm | 8 | 34 Wp | 5.08 Voc | 4.15 Vmp | 68 Wp | 10.15 Voc | 8.31 Vmp | 102 Wp | 15.23 Voc | 12.46 Vmp | 136.1 Wp | 20.31 Voc | 16.61 Vmp | 170.1 Wp | 25.38 Voc | 20.77 Vmp | 204.1 Wp | 30.46 Voc | 24.92 Vmp | 37.5 Wp | 5.34 Voc | 4.35 Vmp | 75 Wp | 10.67 Voc | 8.69 Vmp | 112.5 Wp | 16.01 Voc | 13.04 Vmp | 150 Wp | 21.35 Voc | 17.38 Vmp | 187.5 Wp | 26.68 Voc | 21.73 Vmp | 225 Wp | 32.02 Voc | 26.08 Vmp | | |
| *1230/ 1181 mm | 7 | 29.7 Wp | 4.44 Voc | 3.63 Vmp | 59.5 Wp | 8.88 Voc | 7.27 Vmp | 89.3 Wp | 13.33 Voc | 10.90 Vmp | 119.1 Wp | 17.77 Voc | 14.54 Vmp | 148.8 Wp | 22.21 Voc | 18.17 Vmp | 178.6 Wp | 26.65 Voc | 21.80 Vmp | 32.8 Wp | 4.67 Voc | 3.80 Vmp | 65.6 Wp | 9.34 Voc | 7.61 Vmp | 98.4 Wp | 14.01 Voc | 11.41 Vmp | 131.2 Wp | 18.68 Voc | 15.21 Vmp | 164.1 Wp | 23.35 Voc | 19.01 Vmp | 196.9 Wp | 28.02 Voc | 22.82 Vmp | | |
| *1070/ 1021 mm | 6 | 25.5 Wp | 3.81 Voc | 3.11 Vmp | 51 Wp | 7.62 Voc | 6.23 Vmp | 76.5 Wp | 11.42 Voc | 9.34 Vmp | 102 Wp | 15.23 Voc | 12.46 Vmp | 127.6 Wp | 19.04 Voc | 15.57 Vmp | 153.1 Wp | 22.85 Voc | 18.69 Vmp | 28.1 Wp | 4.00 Voc | 3.26 Vmp | 56.2 Wp | 8.00 Voc | 6.52 Vmp | 84.4 Wp | 12.01 Voc | 9.78 Vmp | 112.5 Wp | 16.01 Voc | 13.04 Vmp | 140.6 Wp | 20.01 Voc | 16.30 Vmp | 168.7 Wp | 24.01 Voc | 19.56 Vmp | | |
| Number of cells | | 1 | 2 | 3 | 4 | 5 | 6 | | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 204 mm | 354 mm | 523 mm | 673 mm | 842 mm | 991 mm | | 204 mm | 354 mm | 523 mm | 673 mm | 842 mm | 991 mm | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Module width | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Dimensions front junction box (length)/rear junction box (length)

| THERMAL CHARACTERISTICS | |
|------------------------------|-------------|
| Operating temperature range | -40 to 85°C |
| Temperature coefficient Pmpp | -0.393 %/°C |
| Temperature coefficient Voc | -0.310 %/°C |
| Temperature coefficient Isc | 0.051 %/°C |

Scientific Partners and Associations

