



## 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<sub>ROOF</sub>(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.



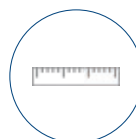
#### Flexibility

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 <sup>2</sup> , 900 mm
Connector	PV4S

		POLY						MONO						
Module length	*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 Wp 38.08 Voc 31.15 Vmp	46.8 Wp 6.67 Voc 5.43 Vmp	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
			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

