

# COMPOSITE SUPER LIGHT MODULE



**ULTRA-LIGHTWEIGHT**  
Only 3.3 kg/m<sup>2</sup>



**HIGH-EFFICIENCY SILICON CELL**  
Monocrystalline cells  
No thin film!



**UNIQUE "LOW DEGRADATION" WARRANTY**  
Minimum 85 % yield after 40 years



**PATENTED MULTI-LAYER CELL ENCAPSULATION**  
Maximal microcrack protection  
Increased longevity



**ETFE FRONT SHEET**  
Soil-repellent (high self-cleaning effect)  
UV & salt resistant  
Optimal heat dissipation



**HIGH YIELD IN ANY POSITION**  
Multi-directional lens structure



**BENDABLE**  
Smallest bending diameter (2 m)



**EASY TO INSTALL**  
Simple but strong adhesive bonding  
No metal subsystem required  
No ballast required



**TAILOR-MADE OPTIONS AVAILABLE**  
Sizing to your requirement  
Transparent back sheet

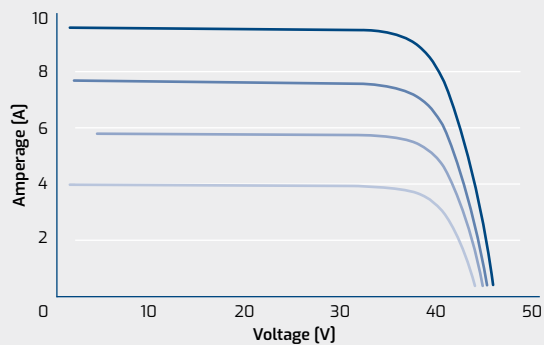


**EXTREME WEATHER CONDITIONS**  
Even in heat, sandstorms and dusty conditions, the module provides stable and durable performance



## THERMAL CHARACTERISTICS

Operating temperature range	-40°C to +85°C
Temperature coefficient P <sub>mpp</sub>	-0.34 % / °C
Temperature coefficient V <sub>oc</sub>	-0.25 % / °C
Temperature coefficient I <sub>sc</sub>	+0.03 % / °C



## I-V-CURVES 11 x 6 M

—	1000W/m <sup>2</sup>
—	800W/m <sup>2</sup>
—	600W/m <sup>2</sup>
—	400W/m <sup>2</sup>
—	±5W/m <sup>2</sup>

## TECHNICAL DATA

Solar cells	5BB monocrystalline solar cells
Maximum system voltage	1000 V.
Maximum overcurrent protection rating	20 A
I <sub>sc</sub>	9.48 A
I <sub>mpp</sub>	8.95 A
Weight	3.3 kg/m <sup>2</sup>
Front sheet	Soil-repellent ETFE
Encapsulation	Patented fiberglass-reinforced plastic
Back sheet	High-resistance PET
Junction box	TÜV-certified (IP67/68) with bypass diodes
Cables	2 x 4 mm <sup>2</sup>
Connector	Original MC4-Evo2

# COMPOSITE SUPER LIGHT MODULE

## AVAILABLE SIZES

ULTRA-LIGHTWEIGHT

EASY INSTALLATION

PATENTED DESIGN

FLEXIBLE | BENDABLE

HIGH EFFICIENCY

HIGHER ENERGY YIELD

EXTREMELY WEATHER RESISTANT

COSTUMIZED SOLUTIONS

HIGH RELIABILITY



LENGTH FJB & RJB	2035 mm	12	12 x 1 M 60 Wp 8.22 Voc 6.78 Vmp	12 x 2 M 120 Wp 16.43 Voc 13.56 Vmp				
	1917 mm	11	11 x 1 M 55 Wp 7.53 Voc 6.22 Vmp	11 x 2 M 110 Wp 15.06 Voc 12.43 Vmp	11 x 3 M 165 Wp 22.60 Voc 18.65 Vmp	11 x 4 M 220 Wp 30.13 Voc 24.86 Vmp	11 x 5 M 280 Wp 37.66 Voc 31.08 Vmp	11 x 6 M 330 Wp 45.19 Voc 37.29 Vmp
	1756 mm	10	10 x 1 M 50 Wp 6.85 Voc 5.65 Vmp	10 x 2 M 100 Wp 13.69 Voc 11.30 Vmp	10 x 3 M 150 Wp 20.54 Voc 16.95 Vmp	10 x 4 M 200 Wp 27.39 Voc 22.60 Vmp	10 x 5 M 250 Wp 34.23 Voc 28.25 Vmp	10 x 6 M 300 Wp 41.08 Voc 33.90 Vmp
	1595 mm	9	9 x 1 M 45 Wp 6.16 Voc 5.09 Vmp	9 x 2 M 90 Wp 12.32 Voc 10.17 Vmp	9 x 3 M 135 Wp 18.49 Voc 15.26 Vmp	9 x 4 M 180 Wp 24.65 Voc 20.34 Vmp	9 x 5 M 225 Wp 30.81 Voc 25.43 Vmp	9 x 6 M 270 Wp 36.97 Voc 30.51 Vmp
	1434 mm	8	8 x 1 M 40 Wp 5.48 Voc 4.52 Vmp	8 x 2 M 80 Wp 10.96 Voc 9.04 Vmp	8 x 3 M 120 Wp 16.43 Voc 13.56 Vmp	8 x 4 M 160 Wp 21.91 Voc 18.08 Vmp	8 x 5 M 200 Wp 27.39 Voc 22.60 Vmp	8 x 6 M 240 Wp 32.87 Voc 27.12 Vmp
	1274 mm	7	7 x 1 M 35 Wp 4.79 Voc 3.96 Vmp	7 x 2 M 70 Wp 9.59 Voc 7.91 Vmp	7 x 3 M 105 Wp 14.38 Voc 11.87 Vmp	7 x 4 M 140 Wp 19.17 Voc 15.82 Vmp	7 x 5 M 175 Wp 23.96 Voc 19.78 Vmp	7 x 6 M 210 Wp 28.76 Voc 23.73 Vmp
	1113 mm	6	6 x 1 M 30 Wp 4.11 Voc 3.39 Vmp	6 x 2 M 60 Wp 8.22 Voc 6.78 Vmp	6 x 3 M 90 Wp 12.32 Voc 10.17 Vmp	6 x 4 M 120 Wp 16.43 Voc 13.56 Vmp	6 x 5 M 150 Wp 20.54 Voc 16.95 Vmp	6 x 6 M 180 Wp 24.65 Voc 20.34 Vmp
STÄRKE 2 MM ± 0.3			1	2	3	4	5	6
			227 mm	377 mm	548 mm	699 mm	870 mm	1020 mm
			WIDTH					



### APPLICATIONS

Building-integrated and building-applied PV (rooftop, facade), special applications



### POWER RANGE

20-330 Wp

Tolerances\*  
 ≥ 250 Wp: - 0 / + 10 W  
 < 250 Wp: - 5 / + 5 W  
 Isc: +/- 10 %  
 Voc: +/- 10 %

\* all electrical data at STC (1.000 W/m<sup>2</sup> 25 +/-2 °C, AM 1.5 according to IEC 60904-3)



### HIGH RELIABILITY

conform to:  
 IEC 61730 | IEC 61215  
 IEC 62804-1  
 Potential-induced degradation  
 IEC 61701 Salt mist corrosion  
 IEC 62716 Ammonia corrosion  
 EN 13501-5 B<sub>ROOF</sub> (t1)  
 "Flying sparks test"



### WARRANTY

10-year product warranty  
 40-year linear performance warranty for building-integrated and building-applied installations



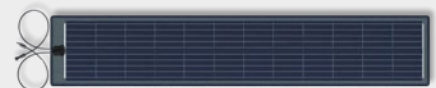
www.das-energy.com



download factsheets



Tel / +43 2622 35035  
 E-Mail / office@das-energy.com  
 Web / www.das-energy.com



Ferdinand Graf von Zeppelin-Straße 18  
 2700 Wiener Neustadt, Austria

