

# COMPOSITE SUPER LIGHT MODULE 11x6

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**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)
- 

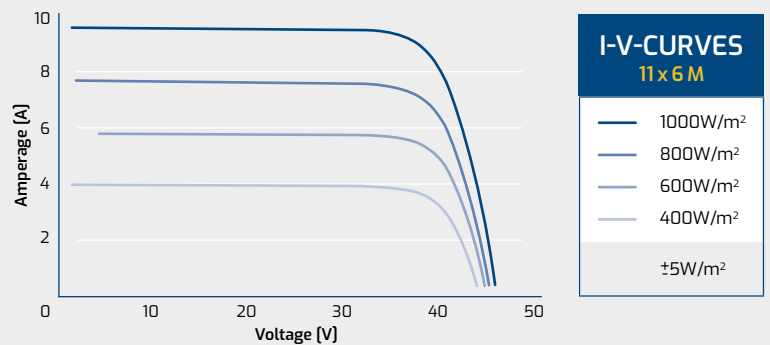
**EASY TO INSTALL**  
Simple but strong adhesive bonding  
No metal subsystem required  
No ballast required
- 

**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   |



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



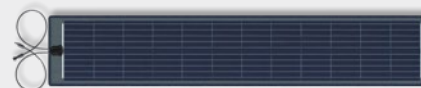
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