

THE GREENHOUSE MODULE 9x4



ULTRA-LIGHTWEIGHT
Only 3.3 kg/m²



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)



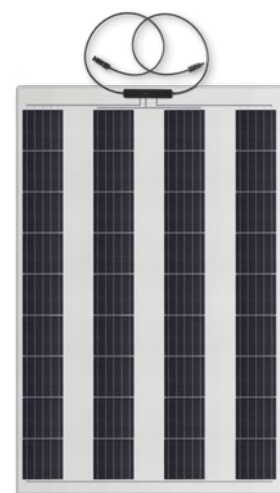
EASY TO INSTALL
Simple but strong adhesive bonding
No metal subsystem required
No ballast required



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

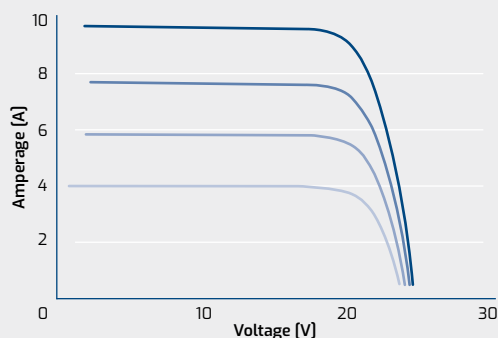


EXTREME WEATHER CONDITIONS
Even in heat, sandstorms and dusty conditions, the module provides stable and durable performance



THERMAL CHARACTERISTICS

Operating temperature range	-40°C to +85°C
Temperature coefficient P _{mp}	-0.34 % / °C
Temperature coefficient V _{oc}	-0.25 % / °C
Temperature coefficient I _{sc}	+0.03 % / °C

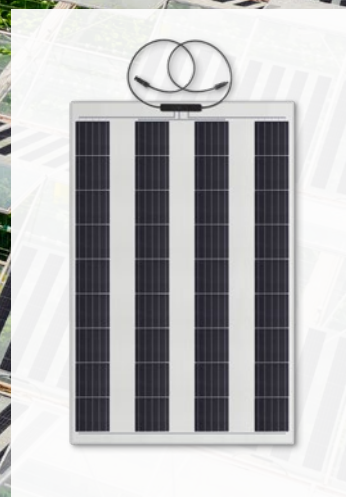
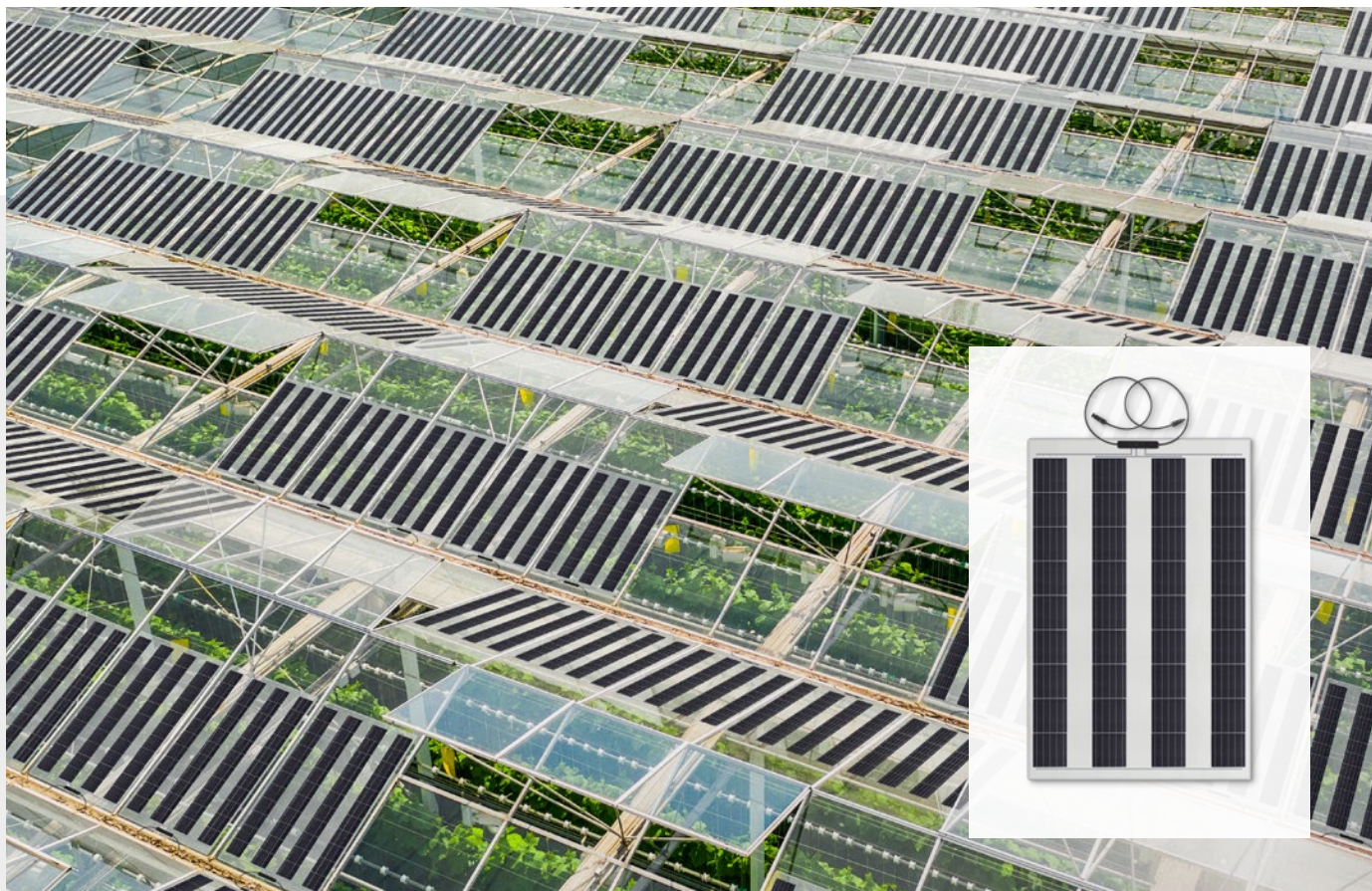


I-V-KURVEN 9 x 4 M

1000W/m ²
800W/m ²
600W/m ²
400W/m ²
±5W/m ²

TECHNICAL DATA

Solar cells	5BB monocrystalline solar cells
Maximum system voltage	1000 V.
Maximum overcurrent protection rating	20 A
I _{sc}	9.48 A
I _{mp}	8.95 A
Weight	3.3 kg/m ²
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 ²
Connector	Original MC4-Evo2



THE GREENHOUSE MODULE 9x4 M RJB | 9x4 M FJB SIZE ADJUSTABLE

Name	Power	Solar cells	Module length	Module width	Voc (V)	Vmpp (V)	Imp (A)	Isc (A)
9x4 M RJB	180 Wp	36	1,595 mm	1,025 mm	24.65	20.34	8.95	9.48
9 x 4 M FJB	180 Wp	36	1,595 mm	1,025 mm	24.65	20.34	8.95	9.48

RJB = rear junction box FJB = front junction box



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/m² 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_{ROOF} (t1)
 "Flying sparks test"



WARRANTY

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



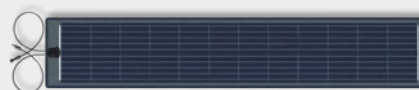
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SCIENTIFIC PARTNERS AND ASSOCIATIONS

