DAS Energy

AUSTRIA

COMPOSITE SUPER LIGHT MODULE 12x2

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)

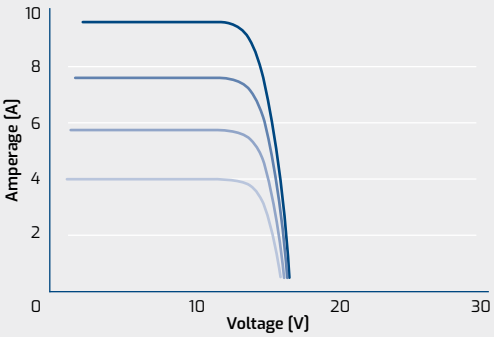
EASY TO INSTALL
Simple but strong adhesive bonding
No metal subsystem required
No ballast required

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 Pmpp	-0.34 % / °C
Temperature coefficient Voc	-0.25 % / °C
Temperature coefficient Isc	+0.03 % / °C



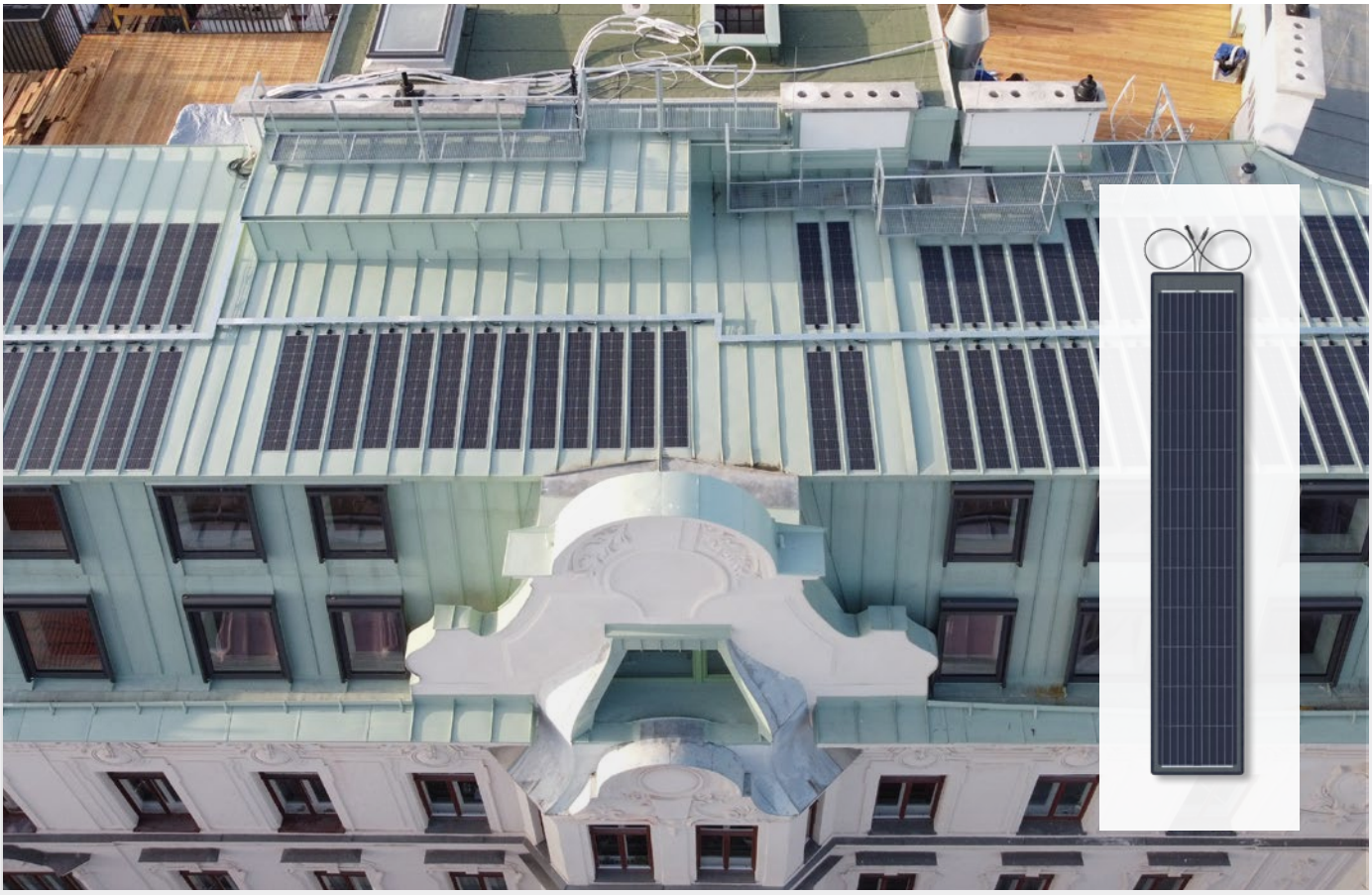
I-V-CURVES
12 x 2 M

- 1000W/m²
- 800W/m²
- 600W/m²
- 400W/m²

±5W/m²

TECHNICAL DATA

Solar cells	5BB monocrystalline solar cells
Maximum system voltage	1000 V.
Maximum overcurrent protection rating	20 A
Isc	9.48 A
Impp	8.95 A
Weight	3.3 kg/m²
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 mm²
Connector	Original MC4-Evo2



COMPOSITE SUPER LIGHT MODULE 12 x 2 M RJB | 12 x 2 M FJB

Name	Power	Solar cells	Module length	Module width	Voc (V)	Vmpp (V)	Impp (A)	Isc (A)
12 x 2 M RJB	120 Wp	24	2,035 mm	377 mm	16.43	13.56	8.95	9.48
12 x 2 M FJB	120 Wp	24	2,035 mm	377 mm	16.43	13.56	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-integratedand building-applied installations

www.das-energy.com

download factsheets

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SCIENTIFIC PARTNERS AND ASSOCIATIONS

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