

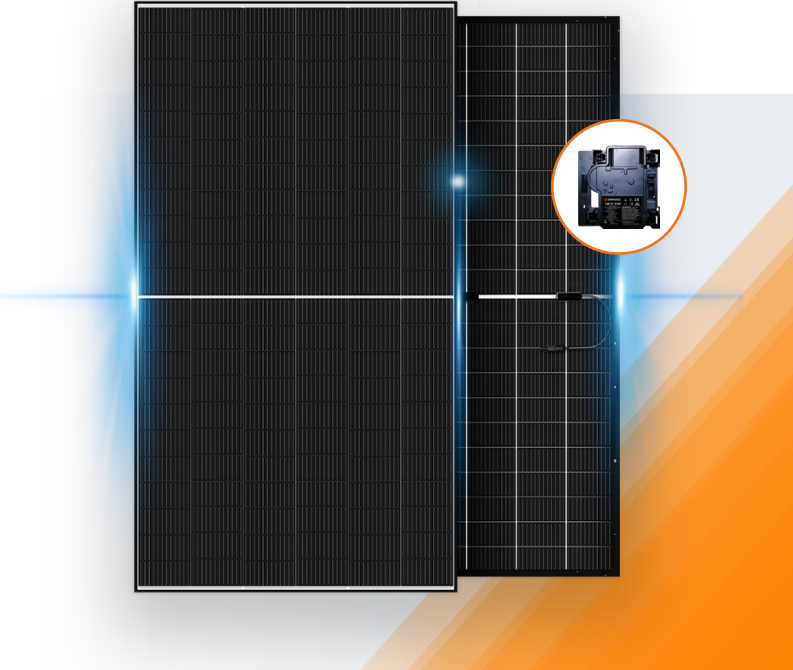
FUSION 2 SOLAR MODULE

REA Power + Enphase ACM

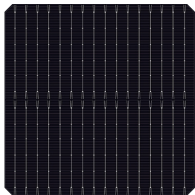
FUSION²

The REA FUSION 2 dual-sided solar module dramatically amplifies energy conversion to provide the highest system efficiency and space management, allowing **up to 30% more energy** than standard solar modules.

Fully integrated with **Enphase IQ8HC Microinverter** to create the world's highest output AC Module (ACM).



FEATURES



16 wires
cell connection

Your Roof Solution



Unified module,
Microinverter integrated



Aesthetically all-black design

Industry-leading Warranty

25 Year
Product Warranty

30 Year
Performance Warranty

Highest Performance

- N-Type HJT Cell technology
- Superior low and oblique light performance
- Split cell structure for higher shading tolerance
- Double sided power generation
- Parallel Circuitry maximises energy production

Engineered Durability

- Flexible cell connection technology
- Cell connections reinforced by aerospace adhesive
- Dual glass structure for increased durability
- Salt Mist Spray tested and certified

Maximum Safety

- Low voltage parallel design
- Zero Potential Induced Degradation
- AC Module design optimisation

FUSION 2 | REA-HD108N-440

AC Electrical Data

Inverter Model	IQ8HC ACM	Nominal Frequency	50 Hz
Maximum Apparent Power	384 VA	Min/Max. Frequency	45/55 Hz
Rated Apparent Power	380 VA	Total Harmonic Distortion	<5%
Min/Max. Grid Voltage	184/276 V	Overvoltage Class AC Port	III
Max. Output Current	1.67 A	Nighttime Power Loss	50 mW
Max. Units per single-phase 20 A circuit	10 (L+N) Single-phase	Power Factor Setting	1.0
Inverter Maximum Efficiency	97.4%	Power Factor Range	0.8 leading ... 0.8 lagging

Mechanical Parameters

Cell Type	N-Type HJT M10	Glass	2.0 mm ARC Glass Front and Rear
Junction Box	Tripple design IP68, 3 diodes	Frame	Black Anodised Aluminium Alloy
Cable Detail	4 mm ² 12 AWG, 1000 mm	Weight	24 kg
Connector	Stabuli MC4 EVO2	Dimension	1722 mm x 1134 mm x 30 mm

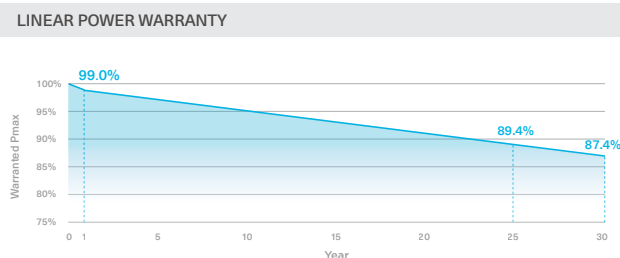
Electrical Characteristics

TEST METHOD	STC	COMBINED WITH REAR (10%)	COMBINED WITH REAR (20%)
Max Power P _{MAX} (W)	440	484	528
Open Circuit Voltage, V _{OC} (V)	38.6	37.7	37.9
Short Circuit Current I _{SC} (A)	14.25	16.08	17.9
Max Power Voltage, V _{MP} (V)	32.7	31.7	32.0
Max Power Current I _{MP} (A)	14.36	15.17	16.4
Module Efficiency (%)	22.53		

STANDARDS			
STC	1000 W/m ² , 25°C, AM 1.5	NOCT	800 W/m ² , 20°C, AM 1.5, wind speed 1m/s

TEMPERATURE RATING (STC)			
Temperature Coefficient of I _{SC}	+0.045% / °C	Temperature Coefficient of P _{MAX} (W)	-0.30% / °C
Temperature Coefficient of V _{OC}	-0.25% / °C		

WARRANTY	
Product Warranty	25 years
Performance Warranty	30 years linear
Backed By	Munich RE 



Operation Parameters

Operational Temperature	-40°C ~ +85°C	Safety Class	Class II
Power Output Tolerance	-0 / +3%	Fire Rating	Class A / UL Type 1 or 2
Max System Voltage	DC 1500 V (IEC/UL)	Front Side Design Load	6000 Pa 125 lb/ft ²
Max Series Fuse Rating	30 A	Rear Side Design Load	5400 Pa 1.5 Safety Factor
NOCT	45.7 +/- 2°C	Hail Impact Test	25 mm Hailstone at 23 m/s

Qualifications and Certificates



Contact

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