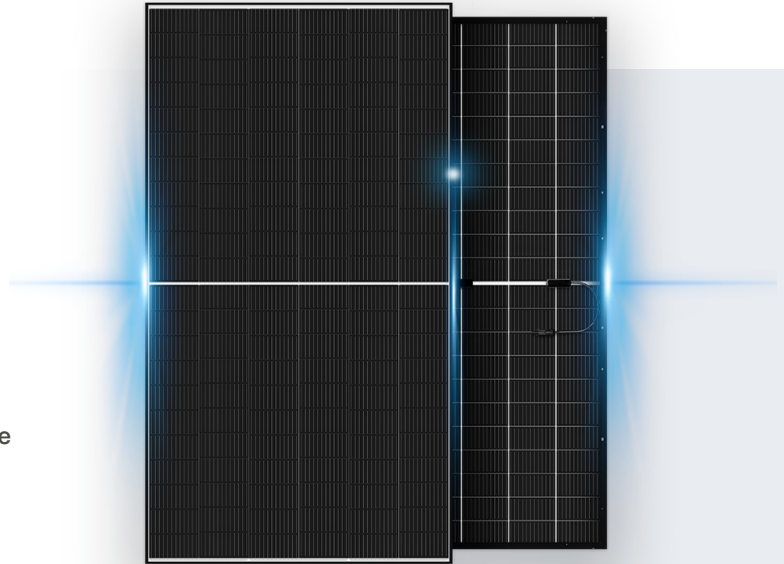


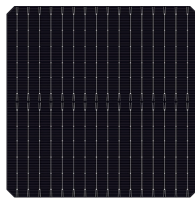
FUSION 2 SOLAR MODULE

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.



FEATURES



16 wires
cell connection

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

Your Roof Solution



Unified module,
Microinverter integrated



Aesthetically all-black design

Engineered Durability

- Flexible cell connection technology
- Aerospace adhesive reinforce cell connections
- Dual glass structure for increased durability
- Salt Mist Spray tested and certified

Industry-leading Warranty

25 Year
Product Warranty

30 Year
Performance Warranty

Maximum Safety

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

FUSION 2 | REA-HD108N-430

AC Electrical Data

Inverter Model	IQ8AC	Nominal Frequency	50 Hz
Maximum Apparent Power	366 VA	Min/Max. Frequency	45/55 Hz
Rated Apparent Power	360 VA	Total Harmonic Distortion	<5%
Min/Max. Grid Voltage	184/276 V	Overvoltage Class AC Port	III
Max. Output Current	1.59 A	Nighttime Power Loss	50 mW
Max. Units per single-phase 20 A circuit	11 (L+N) Single-phase	Power Factor Setting	1.0
Inverter Maximum Efficiency	97.3%	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

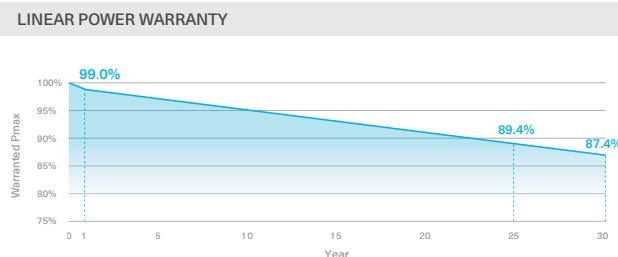
Electrical Characteristics

TEST METHOD	STC	COMBINED WITH REAR (10%)	COMBINED WITH REAR (20%)
Max Power P _{MAX} (W)	430	473	516
Open Circuit Voltage, V _{OC} (V)	38.3		
Short Circuit Current I _{SC} (A)	14.12		
Max Power Voltage, V _{MP} (V)	32.3		
Max Power Current I _{MP} (A)	13.32		
Module Efficiency (%)	22.02		

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

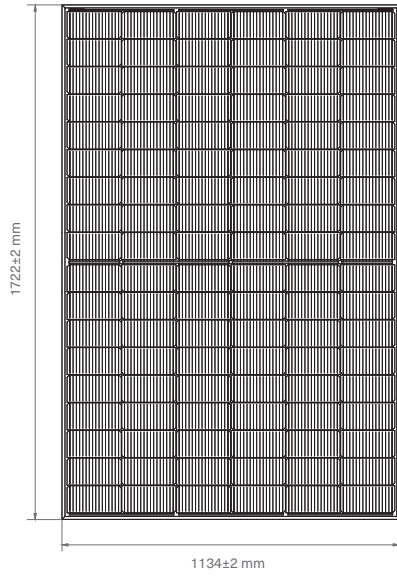
Qualifications and Certificates



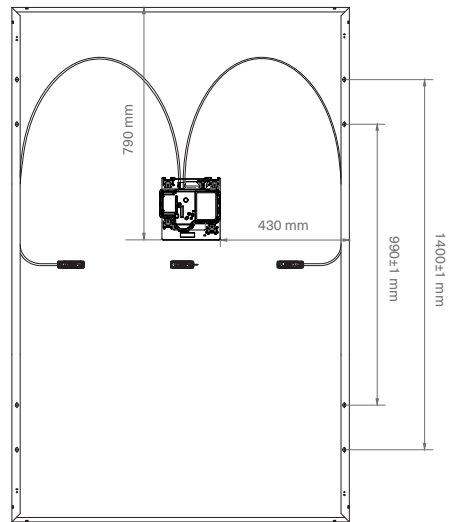
Contact

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Front



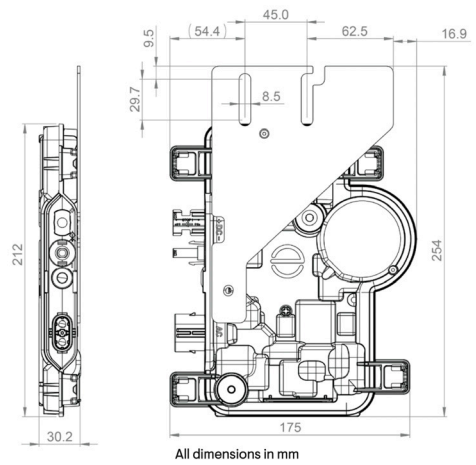
Rear



Side



Microinverter



Engineered in Australia
Specifications included in this datasheet are subject to change without notice.
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