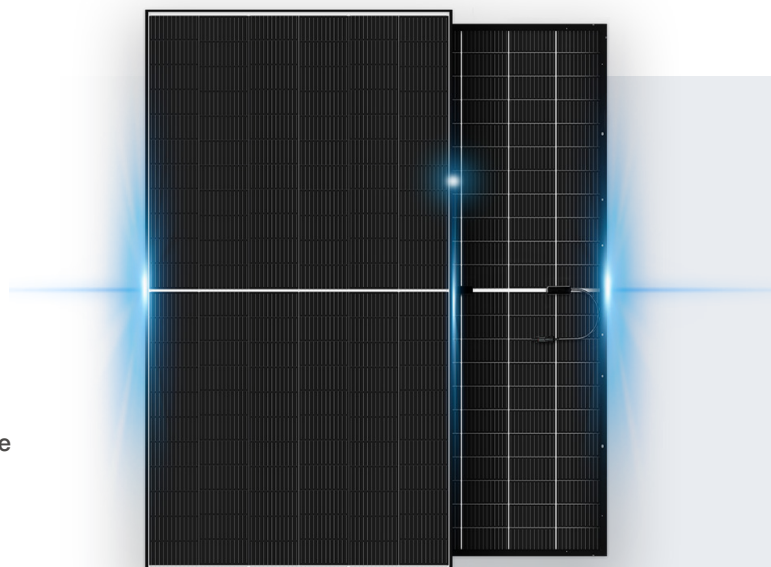


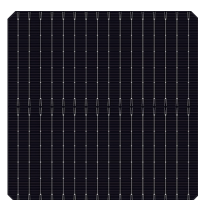
FUSION 2 SOLAR MODULE

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

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
- Aerospace adhesive reinforce cell connections
- 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 |

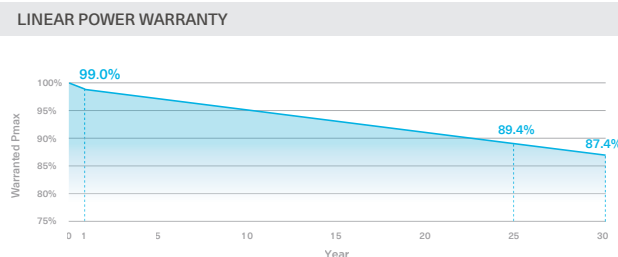
Electrical Characteristics

| 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 |

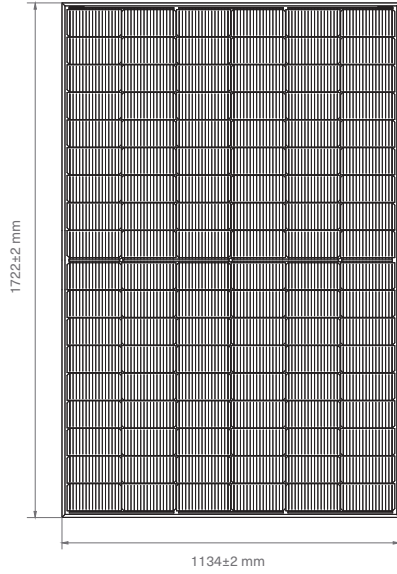
Qualifications and Certificates



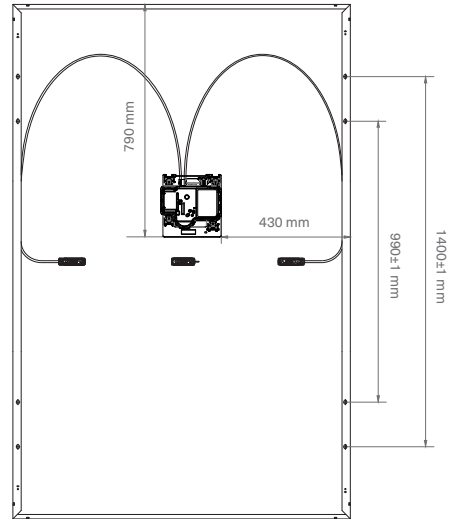
Contact

Unit 6, 19 Lennox Street, Redland Bay, QLD 4165, Australia
 PH: 1300 360 047
 E: engineering@reapower.com.au
 W: www.reapower.com.au

Front



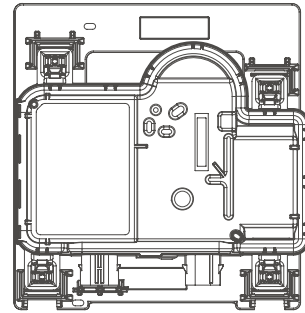
Rear



Side



Microinverter



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