

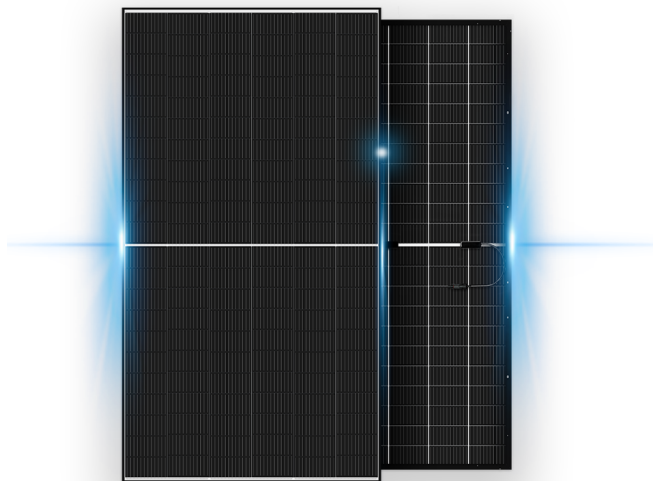
N-TYPE DOUBLE SIDED SOLAR MODULE

Designed for powering the future today
N-TYPE high density solar module dramatically amplifies energy conversion providing the highest system efficiency and space management

Featuring N-Type Bi-Facial Cell technology, the Fusion module increases solar energy harvest by maximising low and oblique light performance

The Fusion solar module utilises a dual glass bifacial panel structure providing double sided power generation

Additional power gain with increased lifespan en compared to conventional P-Type solar modules



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

Maximum Safety

- Low voltage parallel design
- Lower Light Induced Degradation
- Better operating temperature coefficient

ELECTRICAL CHARACTERISTICS @ STC

Max Power P _{MAX} (W)	420	425	430	435	440
Max Power Voltage, V _{MP} (V)	31.9	32.1	32.3	32.5	32.7
Max Power Current I _{MP} (A)	13.17	13.24	13.32	13.39	13.46
Open Circuit Voltage, V _{OC} (V)	37.9	38.1	38.3	38.4	38.6
Short Circuit Current I _{SC} (A)	13.98	14.05	14.12	14.18	14.25
Module Efficiency (%)	21.51	21.76	22.02	22.22	22.53

STC: Irradiance = 1000 W/m², 25°C, AM1.5 Power Measurement Tolerance = + - 3%

ELECTRICAL CHARACTERISTICS @ NOCT

Max Power P _{MAX} (W)	318	322	326	330	334
Max Power Voltage, V _{MP} (V)	30.0	30.2	30.3	30.5	30.7
Max Power Current I _{MP} (A)	10.62	10.67	10.74	10.81	10.88
Open Circuit Voltage, V _{OC} (V)	36.2	36.4	36.6	36.8	37.0
Short Circuit Current I _{SC} (A)	11.27	11.33	11.38	11.43	11.49

NOCT: Irradiance = 800 W/m², 20°C, AM1.5, wind speed 1m/s

TEMPERATURE RATING (STC)

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


MECHANICAL PARAMETERES

Cell Type	N-Type HJT M10 x 108 Pcs
Junction Box	Tripple design IP68, 3 diodes
Cable Detail	4 mm ² 12 AWG, 1000 mm
Connector	Stabuli MC4 EVO2
Glass	2.0mm ARC Glass Front and Rear
Frame	Black Anodised Aluminium Alloy
Weight	24.5kg
Dimension	1722mm x 1134mm x 30mm

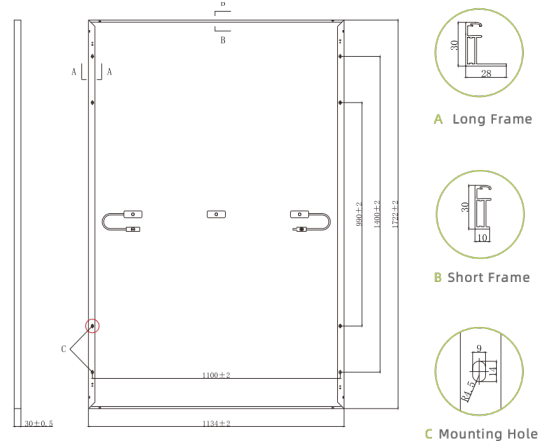
OPERATION PARAMETERS

Operational Temperature	-40°C - +85°C
Power Sorting Tolerance	0 - + 5W
Max System Voltage	DC 1500 V (IEC)
Max Series Fuse Rating	30A
NOCT	45.7 +/- 2°C
Safety Class	Class II
Fire Rating	Class A / UL Type 1 or 2

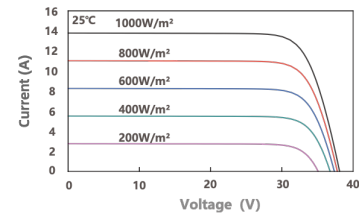
WARRANTY

PRODUCT	25 YEARS
PERFORMANCE	30 YEARS LINEAR
BACKED BY	Munich RE 
ENGINEERED IN	AUSTRALIA

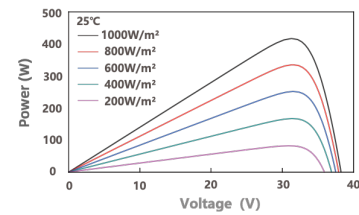
MECHANICAL DIAGRAM



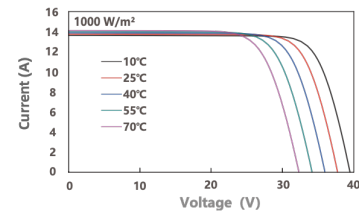
CHARACTERISTIC CURVES



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations

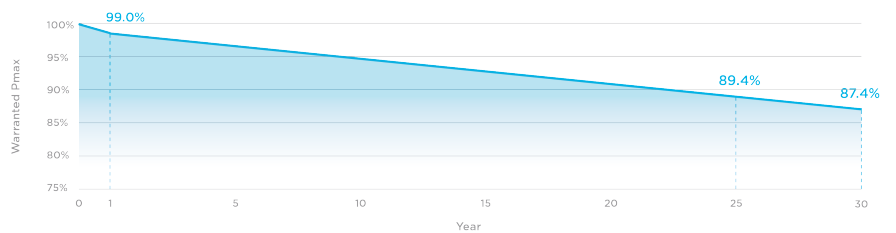


I-V Characteristics At Different Temperatures

MECHANICAL LOADING

Front Side Design Load	5400 Pa 125 lb/ft ²
Rear Side Design Load	1600 Pa 1.5 Safety Factor
Hail Impact Test	25 mm Hailstone at 23 m/s

LINEAR POWER WARRANTY



The specification detail described in this data sheet may deviate slightly due to ongoing innovation. REA Power Pty Ltd reserves the right to make any adjustment to the information described herein at any time without notice.

CONTACT INFORMATION

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