

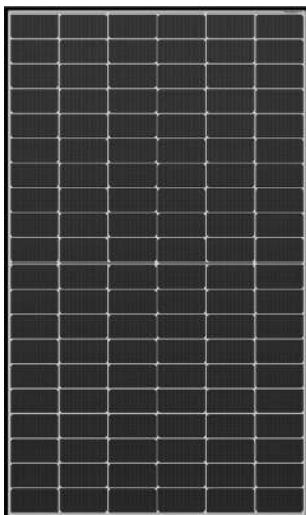
# FUSION ENERGY HIGH DENSITY SOLAR MODULE

Designed for powering the future today  
**FUSION ENERGY** high density solar module dramatically amplifies energy conversion providing the highest system efficiency and space management

Featuring N-Type Heterojunction 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

Engineered in Australia the Fusion solar module has been designed to maximum engineering scrutiny and quality assurance to provide class leading reliability



## 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
- Zero Potential Induced Degradation
- AC Module design optimisation

## ELECTRICAL CHARACTERISTICS

Module Type	REAF-400-HJT	REAF-400-HJT	REAF-400-HJT
Test Method	STC	INTEGRATED (10%)	INTEGRATED (20%)
Max Power P <sub>MAX</sub> (W)	400	442	480
Open Circuit Voltage, V <sub>oc</sub> (V)	45.45	44.7	44.80
Short Circuit Current I <sub>sc</sub> (A)	11.13	12.01	13.65
Max Power Voltage, V <sub>MP</sub> (V)	38.43	37.86	37.76
Max Power Current I <sub>MP</sub> (A)	10.41	11.19	12.71
Module Efficiency (%)	22	23	24
STC	1000 W/m <sup>2</sup> , 25°C, AM1.5		
NOCT	800 W/m <sup>2</sup> , 20°C, AM1.5, wind speed 1m/s		

## TEMPERATURE RATING (STC)

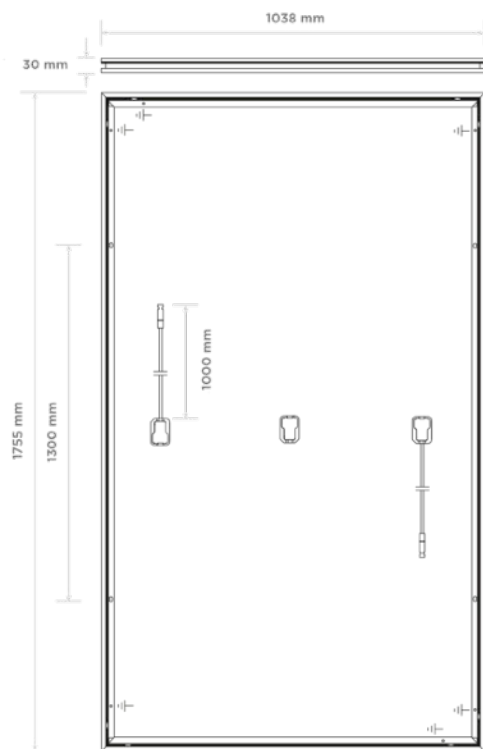
Temperature Coefficient of I <sub>sc</sub>	+0.040% / °C
Temperature Coefficient of V <sub>oc</sub>	-0.22% / °C
Temperature Coefficient of P <sub>MAX</sub> (W)	-0.24% / °C

## MECHANICAL LOADING

Front Side Design Load	6000 Pa   125 lb/ft <sup>2</sup>
Rear Side Design Load	2400 Pa   50 lb/ft <sup>2</sup>
Hail Impact Test	25 mm Hailstone at 23 m/s

## MECHANICAL PARAMETERES

Cell Type	AKCOME HJT 166MM
Junction Box	IP68, 3 diodes
Cable Detail	4 mm <sup>2</sup>   12 AWG, 1000 mm
Connector	Genuine MC4
Glass	3.2mm ARC Glass front 2.0mm rear
Frame	Black Anodised Aluminium Alloy
Weight	22.8kg
Dimension	1755mm x 1038mm x 30mm



## OPERATION PARAMETERS

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	-0 / +5 W
Max System Voltage	DC 1500 V (IEC/UL)
Max Series Fuse Rating	20A
NOCT	45.7 +/- 2°C
Safety Class	Class II
Fire Rating	Class A / UL Type 1 or 2

## WARRANTY

PRODUCT	25 YEARS
PERFORMANCE	25 YEARS



## LINEAR POWER WARRANTY

