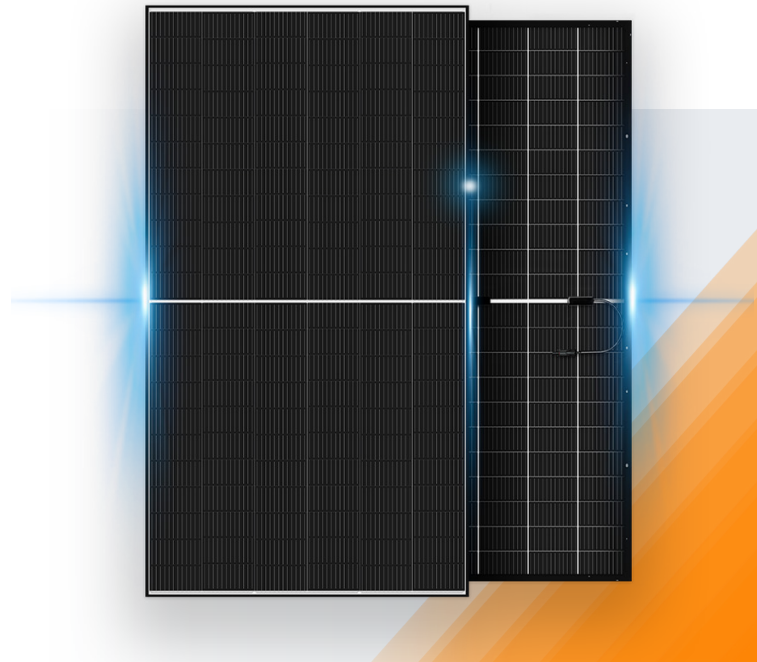


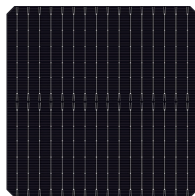
FUSION 2 SOLAR MODULE

FUSION²

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



FEATURES



16 wires
cell connection

Your Roof Solution



Aesthetically all-black design

Industry-leading Warranty

25 Year
Product Warranty

30 Year
Performance Warranty

Highest Performance

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

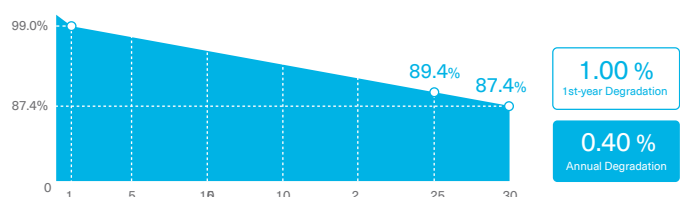
Engineered Durability

- Flexible cell connection technology
- Cell connections reinforced by aerospace adhesive
- Dual glass structure for increased durability

Maximum Safety

- Low voltage parallel design
- AC Module design optimisation

Linear Performance Warranty



REA-HD108N-C3-450 | Dual Glass Module

Mechanical Characteristics

Cell Type	FUSION-M10
No. of Cells	108pcs
Dimensions	1762x1134x30mm
Weight	25.0kg
Junction Box	IP68
Cable	4.0mm ² , +300mm/-180mm (Cable length can be customized)
Connector	QC Solar QC4.10-cds / Staubli EVO2
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 1.6mm
Packing Configuration	36pcs/Pallet, 936pcs/40HQ

Electrical Characteristics

STC						
REA-HD108N-C3-	430	435	440	445	450	455
Max Power P _{MAX} (W)	430	435	440	445	450	455
Module Efficiency (%)	21.52	21.77	22.02	22.27	22.52	22.77
Max Power Voltage, V _{MP} (V)	32.97	33.15	33.33	33.51	33.69	33.87
Max Power Current I _{MP} (A)	13.04	13.12	13.20	13.28	13.36	13.43
Open Circuit Voltage, V _{OC} (V)	38.37	38.57	38.77	38.97	39.17	39.37
Short Circuit Current I _{SC} (A)	13.68	13.93	14	14.07	14.14	14.21

STC: AM1.5, 1000W/m², 25°C.

BNPI & Bifaciality Coefficient						
REA-HD108N-C3-	430	435	440	445	450	455
BNPI	P _{MAX} (W)	473	478.50	484	489.50	495
	V _{OC} (V)	38.49	38.69	38.89	39.09	39.29
	I _{SC} (A)	15.25	15.32	15.40	15.47	15.55
Bifaciality Coefficient	ΦP _{MAX} (±10%)	80	80	80	80	80
	ΦV _{OC} (±3%)	99	99	99	99	99
	ΦI _{SC} (±10%)	79	79	79	79	79

Rear Performance Gain (REA-HD108N-C3-450)					
Power Gain (%)	10	15	20	25	30
Max Power P _{MAX} (W)	495	517.50	540	562.50	585
Max Power Voltage, V _{MP} (V)	33.69	33.69	33.69	33.79	33.79
Max Power Current I _{MP} (A)	14.69	15.36	16.03	16.65	17.31
Open Circuit Voltage, V _{OC} (V)	39.17	39.17	39.17	39.27	39.27
Short Circuit Current I _{SC} (A)	15.55	16.26	16.96	17.63	18.33

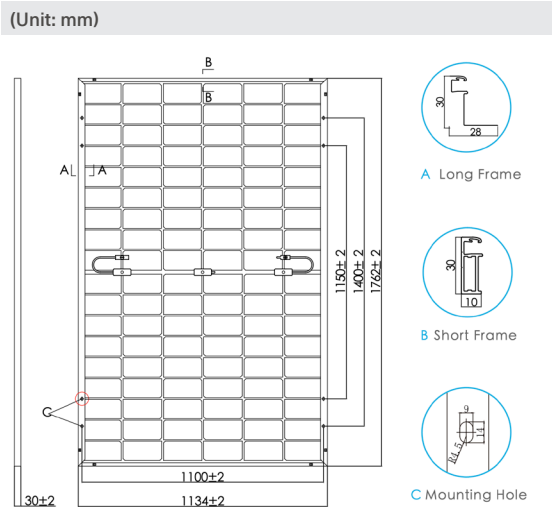
Operating Characteristics

Nominal Operating Cell Temp.	42±2°C
Operating Temperature	-40~+85°C
Max System Voltage	DC1500V (IEC)
Max Series Fuse Rating	30 A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	80±5%
Safety Class	Class II

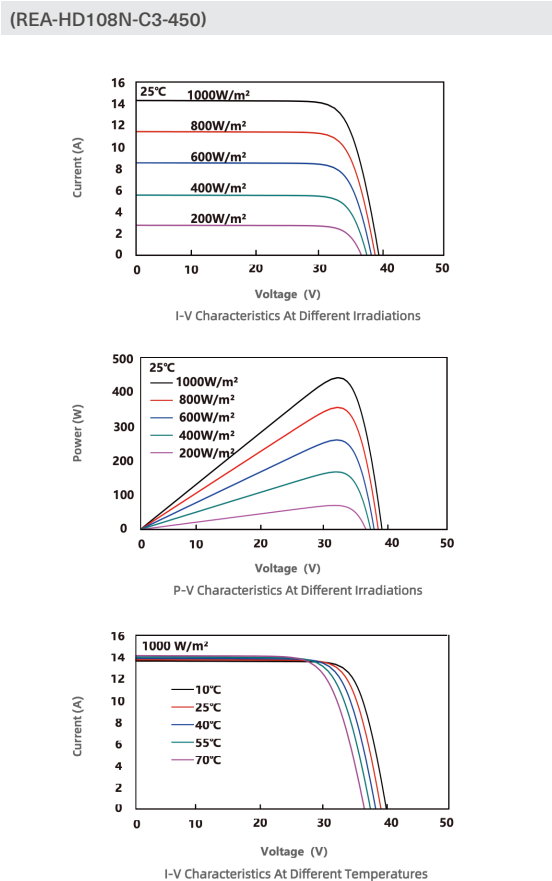
Temperature Characteristics

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

Engineering Drawings



Characteristics Curves



*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. REA Power Pty, Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

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