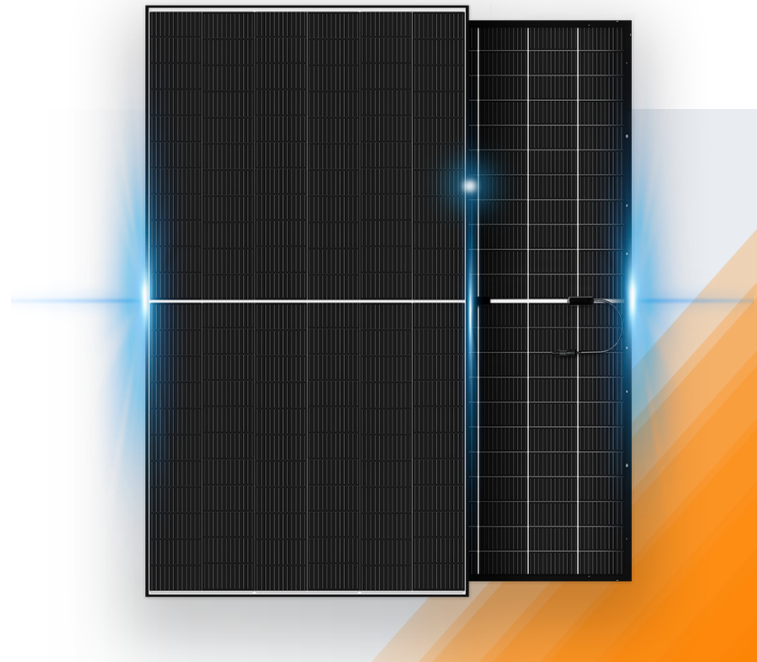


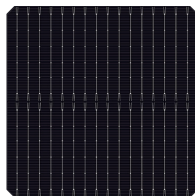
FUSION 2 SOLAR MODULE

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

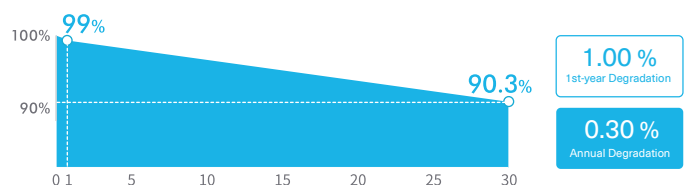
Engineered Durability

- 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-HDN108RS-505 | HJT Dual Glass Module

Mechanical Characteristics

Cell Type	N-type
No. of Cells	108pcs
Dimensions	1960x1134x30mm
Weight	27.1kg
Junction Box	IP68
Cable	4mm ² ; 1250mm or customized; UV resistant
PV Connector*	Make: Staubli; Model: PV-KST4-EVP 2/xy_UR
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm
Packing Configuration	36pcs/Pallet, 864pcs/40HQ
Fire Rating	C

Electrical Characteristics

STC						
REA-HDN108RS-	495	500	505	510	515	520
Max Power P _{MAX} (W)	495	500	505	510	515	520
Module Efficiency (%)	22.3	22.5	22.7	22.9	23.2	23.4
Max Power Voltage, V _{MP} (V)	34.05	34.16	34.27	34.38	34.49	34.60
Max Power Current I _{MP} (A)	14.54	14.64	14.74	14.84	14.94	15.04
Open Circuit Voltage, V _{OC} (V)	40.65	40.76	40.87	40.98	41.09	41.20
Short Circuit Current I _{SC} (A)	15.37	15.48	15.59	15.70	15.81	15.92

STC: AM1.5, 1000W/m², 25°C.

BNPI						
Max Power P _{MAX} (W)	555	560	566	571	577	583
Max Power Voltage, V _{MP} (V)	34.17	34.28	34.39	34.50	34.61	34.72
Max Power Current I _{MP} (A)	16.25	16.36	16.47	16.58	16.69	16.80
Open Circuit Voltage, V _{OC} (V)	40.79	40.90	41.01	41.12	41.23	41.34
Short Circuit Current I _{SC} (A)	17.24	17.36	17.48	17.61	17.73	17.85

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT						
Max Power P _{MAX} (W)	377	381	385	389	393	397
Max Power Voltage, V _{MP} (V)	32.53	32.63	32.73	32.83	32.93	33.03
Max Power Current I _{MP} (A)	11.62	11.70	11.78	11.86	11.94	12.02
Open Circuit Voltage, V _{OC} (V)	38.80	38.90	39.01	39.11	39.22	39.32
Short Circuit Current I _{SC} (A)	12.28	12.37	12.46	12.55	12.64	12.72

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Operating Characteristics

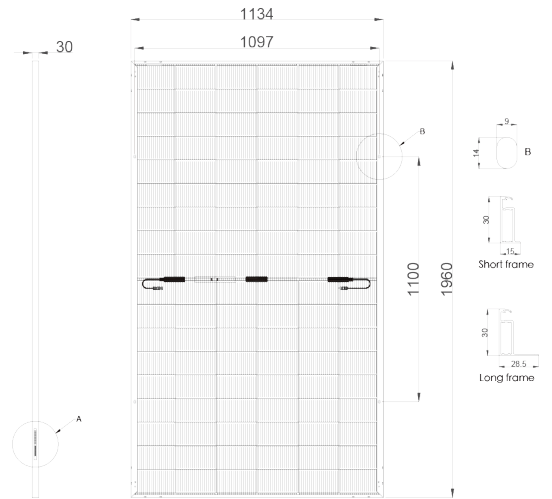
Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Max System Voltage	DC1500V (IEC)
Max Series Fuse Rating	30 A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifacial Gain	30%
Bifaciality Coefficient	φPmax=90±5%, φVoc=95%~100%, φIsc=90%±5%
Safety Class	Class II

Temperature Characteristics

Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.04%/°C

Engineering Drawings

(Unit: mm)

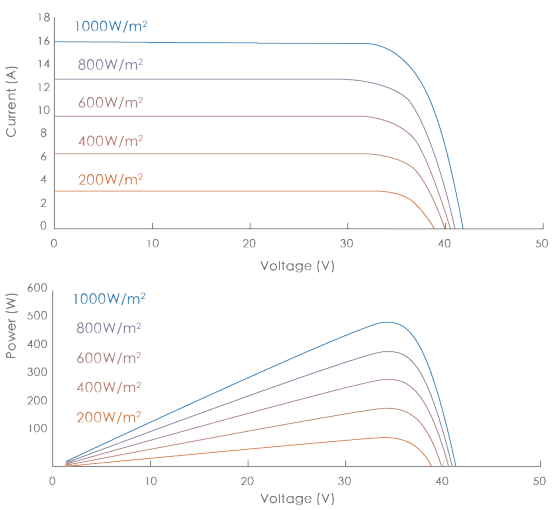


*Connector: Staubli Electrical Connectors AG - PV-KST4-EVO 2/xy_UR;PV-KBT4-EVO 2/xy_UR - 1500VDC, 45A, IP68

Country of Origin: China

Characteristics Curves

(REA-HDN108RS-510)



*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.

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