


# TYPE X


REA-HD108R


475~500


Type X Cell Dual Glass Solar Module

Built on Proven Design.  
Powered by Next-Gen Technology.

 **Higher Energy Output**  
Generate more power with fewer panels thanks to class-leading module efficiency.

 **Next-Generation Cell Technology**  
Built on our proven N-Type and OBB architecture. Enhanced with Back-contact Cell Technology for greater performance.

 **Double Sided Performance**  
Transparent bifacial architecture captures reflected light from both sides of the panel, increasing energy generation and maximising power output.

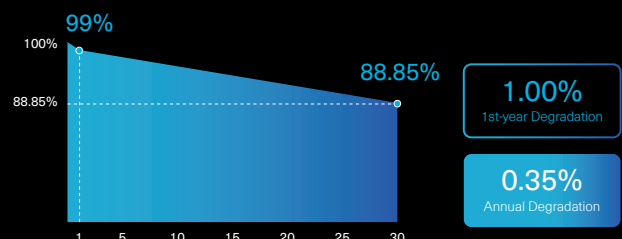
 **Maximum Strength & Reliability**  
Dual-glass construction delivers superior durability, enhanced weather resistance and long-term performance.

## Industry-leading Warranty

**25** Year Product Warranty

**30** Year Performance Warranty

## Linear Performance Warranty



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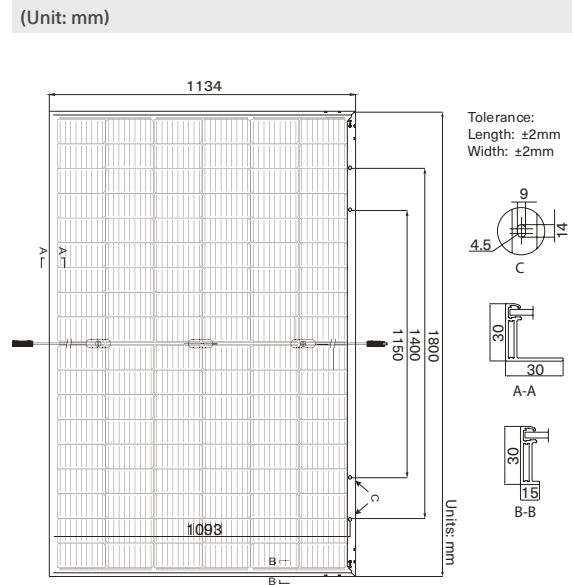
## Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , +400, -200mm/±1200mm length can be customized
Glass	Double glass; 2.0mm coated tempered glass+1.6mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	23.5kg
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20'GP / 864pcs per 40'HC

## Operation Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~+3%
Max System Voltage	DC 1500 V (IEC)
Max Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Safety Class	Class II
Bifaciality	70±5%
Fire Rating	IEC Class C
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Static Loading Hailstone Test	25mm Hailstone at the speed of 23m/s

## Engineering Drawings



## Electrical Characteristics

STC: AM1.5, 1000W/m<sup>2</sup>, 25°C    NOCT: AM1.5, 800W/m<sup>2</sup>, 20°C, 1m/s    Test uncertainty for Pmax: ±3%

MODULE TYPE	REA-HD108R-475		REA-HD108R-480		REA-HD108R-485		REA-HD108R-490		REA-HD108R-495		REA-HD108R-500	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition												
Maximum Power (Pmax/W)	475	361	480	365	485	369	490	373	495	377	500	381
Open Circuit Voltage (Voc/V)	40.42	38.39	40.53	38.50	40.64	38.61	40.75	38.73	40.86	38.84	40.97	38.95
Short Circuit Current (Isc/A)	14.88	11.93	14.98	12.02	15.08	12.10	15.18	12.19	15.28	12.27	15.38	12.35
Voltage at Maximum Power (Vmp/V)	33.40	31.71	33.51	31.82	33.62	31.93	33.73	32.05	33.84	32.16	33.95	32.27
Current at Maximum Power (Imp/A)	14.23	11.39	14.33	11.48	14.43	11.56	14.53	11.65	14.63	11.73	14.73	11.81
Module Efficiency (%)	23.3		23.5		23.8		24.0		24.3		24.5	

REAR SIDE POWER GAIN (BNPI)						
Pmax/W	520	526	531	537	542	548
Voc/V	40.42	40.53	40.64	40.75	40.86	40.97
Isc/A	16.28	16.40	16.51	16.62	16.73	16.84
Vmp/V	33.40	33.51	33.62	33.73	33.84	33.95
Imp/A	15.57	15.68	15.80	15.91	16.02	16.13

TEMPERATURE RATING (STC)	
Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C

WARRANTY	
Product Warranty	25 years
Performance Warranty	30 years linear
Backed By	Munich RE

## Qualifications and Certificates



## Contact

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