

M10 CELLS MONO PERC MODULE

RPS2MH72BDXXX

BIFACIAL
535-560 W



POWER
WARRANTY



BIFACIALITY
FACTOR

ALMM
APPROVED

Comprehensive System and Product Certifications

ISO 9001:2015: Quality Management system

ISO 14001:2015: Environment Management system

ISO 45001:2018: Occupational health and safety



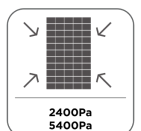
Advanced technologies

Multi-bus bar / PERC / Ga Doped / Half cut/
M10 cell / smart soldering.



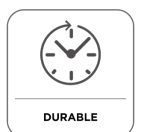
Heavy snow, hail, wind-load resistant

Enhanced mechanical load up to 5400 Pascals of snow load
and up to 2400 Pascals of wind load.



Reliable modules with longer lifespan

Hotspot resistant, micro cracking resistant, 0.45% Linear degradation over
30 years, less damage due to weather stress.



Excellent low light performance

More power output in weak light conditions (early morning/sunset/cloudy).
Suitable for large scale utility and ground mount projects.



MAXIMUM POWER OUTPUT

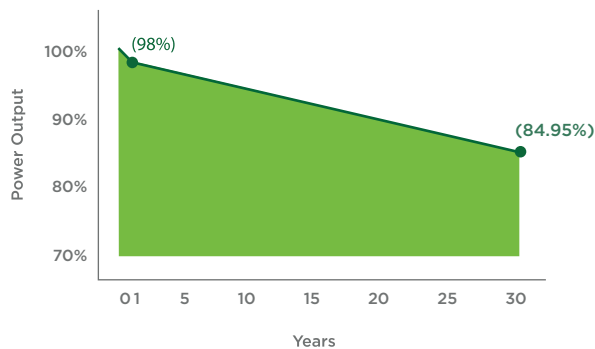
MAXIMUM EFFICIENCY

POSITIVE POWER TOLERANCE

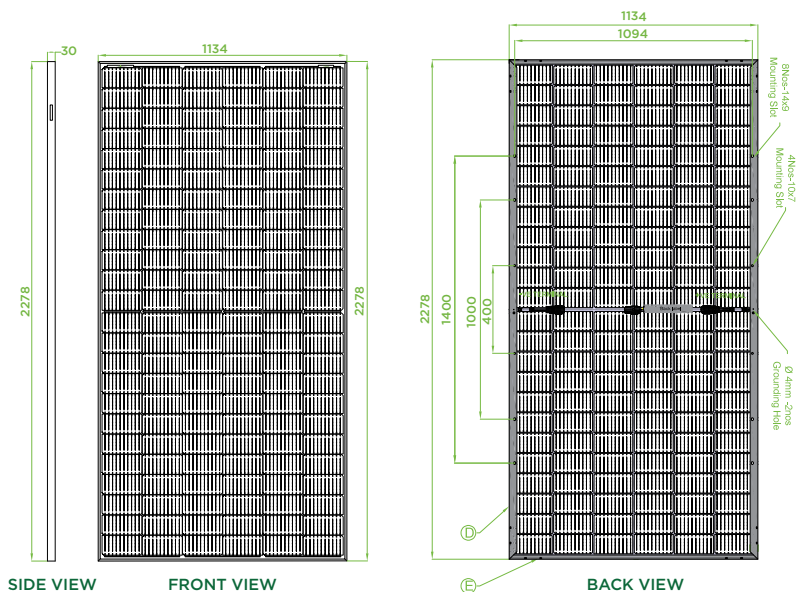
2%

0.45 %

30-year power warranty



* Please refer to the Warranty Document for details.



Electrical Data (STC)

Peak Power-P _{MAX} (Wp)*	535	540	545	550	555	560
Power Tolerance - P _{MAX} (W)	0 ~ +5					
Max Power Voltage - V _{MPP} (V)	40.61	40.66	40.79	40.90	41.01	41.10
Max Power Current - I _{MPP} (A)	13.18	13.29	13.37	13.45	13.54	13.63
Open Circuit Voltage - V _{OC} (V)	49.55	49.68	49.71	49.74	49.77	49.81
Short Circuit Current - I _{SC} (A)	13.79	13.85	13.94	14.03	14.12	14.21
Module Efficiency - η _m (%)	20.71	20.90	21.10	21.29	21.48	21.68

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

Electrical Data (NOCT)

Maximum Power - P_{MAX} (Wp)	401	406	409	414	417	421
Maximum Power Voltage-V _{MPP} (V)	38.30	38.50	38.50	38.50	38.60	38.69
Maximum Power Current-I _{MPP} (A)	10.49	10.56	10.63	10.75	10.82	10.89
Open Circuit Voltage - V _{OC} (V)	46.40	46.60	46.60	46.50	46.53	46.57
Short Circuit Current-I _{SC} (A)	11.13	11.18	11.25	11.36	11.43	11.51



FRAME DETAILS (D)



FRAME DETAILS (E)

All dimensions are in mm

MECHANICAL DATA

Solar Cells	Bifacial Mono PERC
No. of cells	144 Half cut
Module Dimensions	2278 × 1134 × 30 mm
Weight	32.5 kg
Front Glass	2mm, High Transmission glass, Tempered ARC glass
Encapsulant	EPE / EVA
Rear Cover	2mm, High Transmission glass
Frame	30mm, Anodized Aluminum
Junction Box	IP68 / IP67
Cable*	4.0 mm ² , Cable length 300mm (Positive and Negative)
Connector*	MC4/ MC4 compatible

*Please connect with the sales team for final connector details.
^ Cable length can be customised.

Temperature rating

NOCT	43°C ±2°C
Temperature Coefficient of P _{MAX}	- 0.32%/°C
Temperature Coefficient of V _{OC}	- 0.25%/°C
Temperature Coefficient of I _{SC}	0.06%/°C
Max Series Fuse rating	30A

WARRANTY

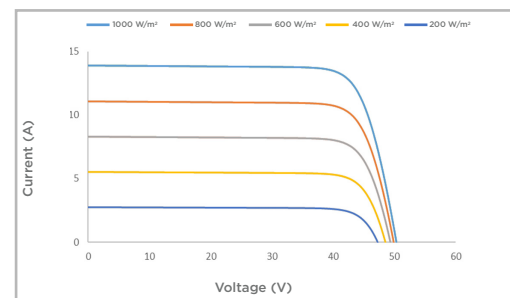
12-year Product Workmanship Warranty
30-year Power Warranty
2% first year degradation
0.45% Annual Power Attenuation

PACKING CONFIGURATION

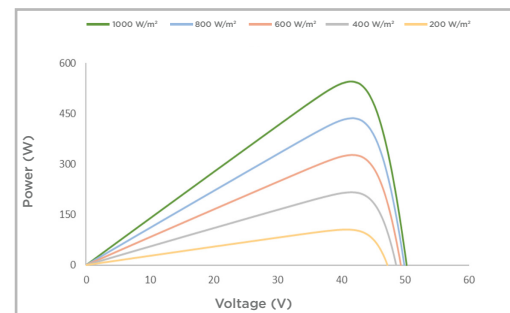
Modules per box: 36 pieces
Modules per 40' HC container: 720 pieces

Document Number: RP/SS/M10/144/R/005

IV Curve



PV Curve



CAUTION:
READ SAFETY AND INSTALLATION INSTRUCTIONS
BEFORE USING THE PRODUCT.

Specifications included in this datasheet are subject to change without notice.

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