

M10 CELLS TOPCON MODULE

RPS2MH72BDXXX

BIFACIAL
570-590W



POWER
WARRANTY



BIFACIALITY
FACTOR



N-type
TOPCon

Comprehensive System Certifications

ISO 9001:2015: Quality Management system

ISO 14001:2015: Environment Management system

ISO 45001:2018: Occupational health and safety



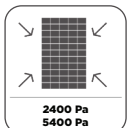
Advanced TOPCon technology

16 busbars to minimize micro-crack impacts / Half cut / M10 cell /
Smart soldering / Zero LID



Tough modules for harsh weather

Tested to withstand extended wind load (2400 Pa)
and snow load (5400 Pa)



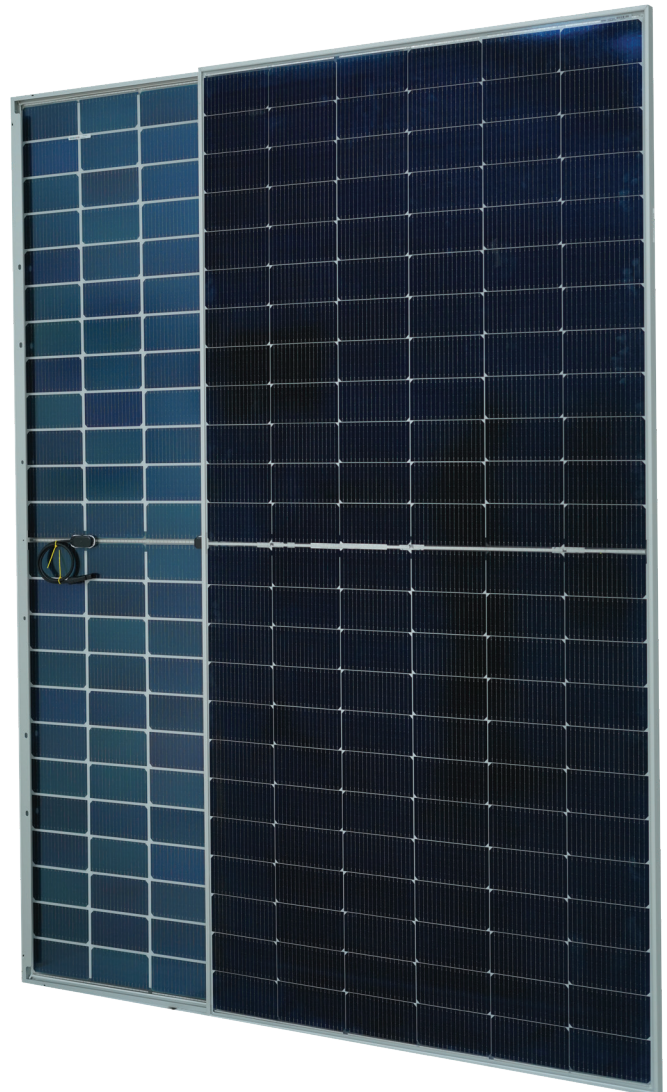
Robust performance

1% 1ST year degradation,
Excellent PID resistance performance



High performance tolerance

Excellent low light performance on cloudy or rainy days /
Low temperature coefficient for stable performance in hot climates



590W

MAXIMUM POWER OUTPUT

22.84%

MAXIMUM EFFICIENCY

0~+5W

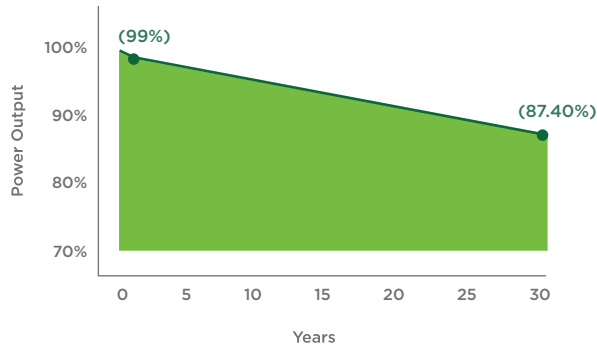
POSITIVE POWER TOLERANCE

1% FIRST YEAR POWER DEGRADATION

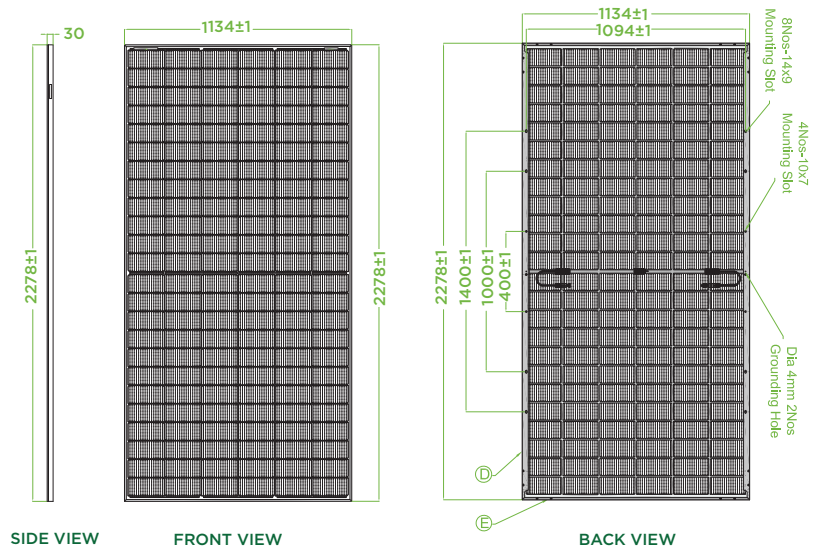
0.40 % SUBSEQUENT ANNUAL POWER DEGRADATION

GUARANTEED POWER

30-year power warranty



*Please refer to the Warranty Document for details



ELECTRICAL DATA

Electrical Data (STC)

Peak Power- P_{MAX} (Wp)*	570	575	580	585	590
Power Tolerance - P_{MAX} (W)	0 - +5				
Max Power Voltage - V_{MPP} (V)	42.44	42.56	42.68	42.79	42.91
Max Power Current - I_{MPP} (A)	13.44	13.52	13.59	13.68	13.76
Open Circuit Voltage - V_{OC} (V)	51.16	51.29	51.42	51.55	51.68
Short Circuit Current - I_{SC} (A)	14.16	14.24	14.32	14.40	14.48
Module Efficiency - η_m (%)	22.07	22.26	22.45	22.65	22.84

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

Electrical Data (NOCT)

Maximum Power - P_{MAX} (Wp)	431	435	438	442	447
Maximum Power Voltage- V_{MPP} (V)	39.83	39.95	40.21	40.30	40.34
Maximum Power Current- I_{MPP} (A)	10.83	10.89	10.89	10.95	11.08
Open Circuit Voltage - V_{OC} (V)	48.32	48.44	48.53	48.64	48.80
Short Circuit Current- I_{SC} (A)	11.42	11.48	11.55	11.61	11.68

MECHANICAL DATA

Solar Cells	Bifacial TOPCon
No. of cells	144 Half cut
Module Dimensions	2278 × 1134 × 30 mm
Weight	32.5 kg
Front Glass	2 mm, High Transmission glass
Encapsulant	EPE / EVA
Rear Cover	2 mm, High Transmission glass
Frame	30 mm, Anodized Aluminum
Junction Box	IP68 / IP67
Cable [^]	4.0 mm ² , Cable length 300 mm (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	45°C (±2°C)
Temperature Coefficient of P_{MAX}	- 0.30%/°C
Temperature Coefficient of V_{OC}	- 0.24%/°C
Temperature Coefficient of I_{SC}	0.04%/°C
Max Series Fuse rating	30A

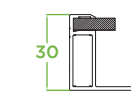
WARRANTY

12-year Product Workmanship Warranty
30-year Power Warranty
1% First Year Degradation
0.40% Annual Power Attenuation

PACKING CONFIGURATION

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

RP/SS/M10TC/144/R/001



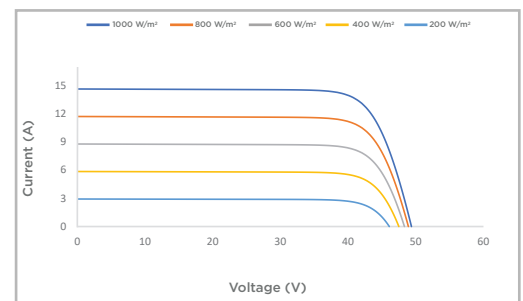
FRAME DETAILS (D)



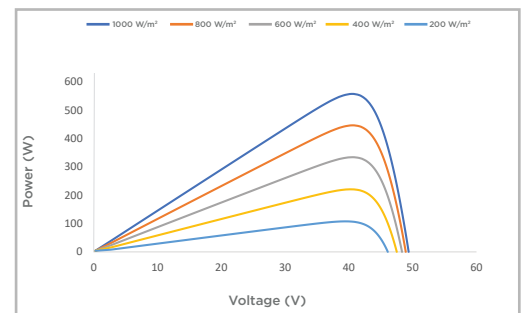
FRAME DETAILS (E)

All dimensions are in mm

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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