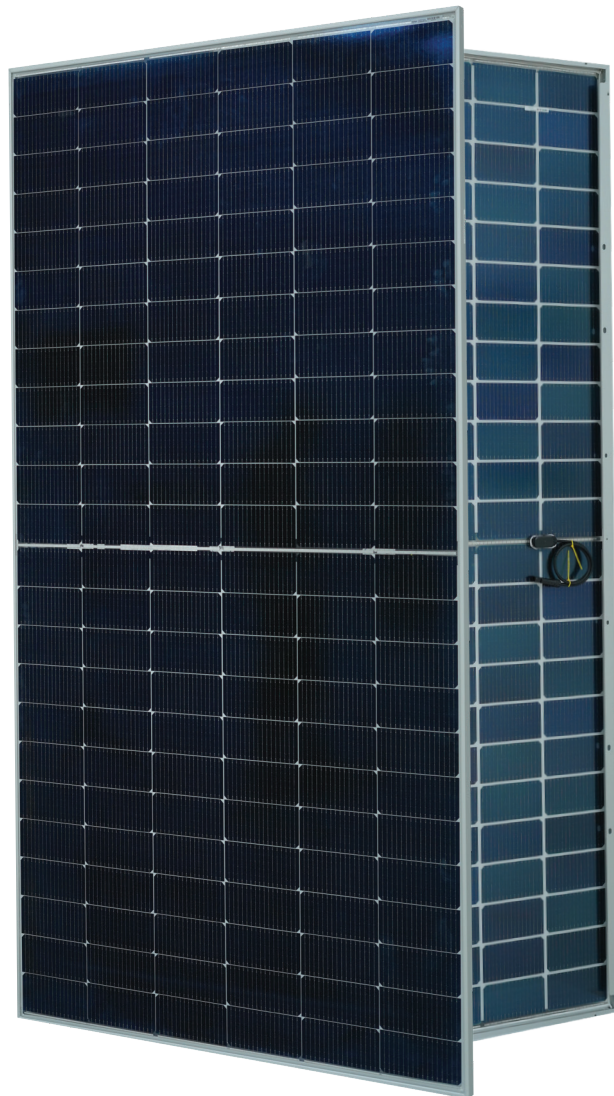




M10R CELLS TOPCON MODULE

RPS2MH72BDXXX

BIFACIAL
580-610W



POWER
WARRANTY



BIFACIALITY
FACTOR



N-TYPE
TOPCON



ALMM
APPROVED

Comprehensive System Certifications

ISO 9001:2015: Quality Management system

ISO 14001:2015: Environment Management system

ISO 45001:2018: Occupational health and safety



PV MODULE
RELIABILITY SCORECARD



PV MODULE
RELIABILITY SCORECARD



PV MODULE
RELIABILITY SCORECARD



Factory Audit



NEW ENERGY FINANCE

Advanced TOPCon technology

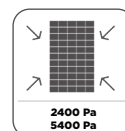
16 busbars to minimize micro-crack impacts / Half cut /
M10R cell / Smart soldering / Zero LID



SMART
EFFICIENCY

Tough modules for harsh weather

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



2400 Pa
5400 Pa

Robust performance

1% 1ST year degradation,
Excellent PID resistance performance



ROBUST
PERFORMANCE

High performance tolerance

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



WEAK LIGHT

610W

MAXIMUM POWER OUTPUT

23.61%

MAXIMUM EFFICIENCY

0~+5W

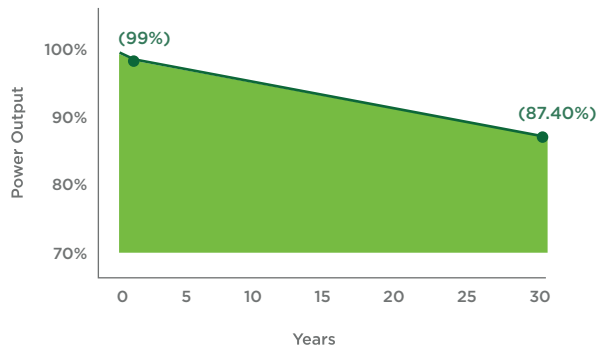
POSITIVE POWER TOLERANCE

1% FIRST YEAR POWER DEGRADATION

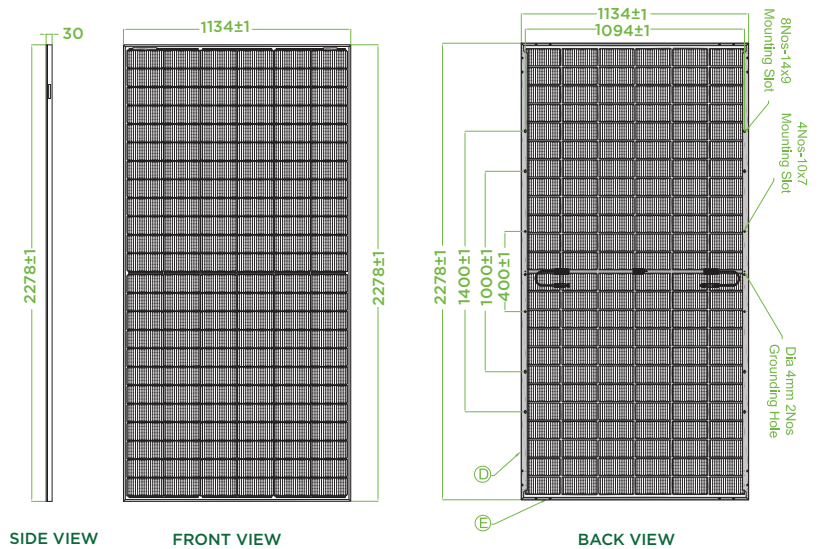
0.40 % SUBSEQUENT ANNUAL POWER DEGRADATION

GUARANTEED POWER

30-year power warranty



*Please refer to the Warranty Document for details



ELECTRICAL DATA

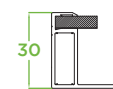
Electrical Data (STC)

Peak Power- P_{MAX} (Wp)*	580	585	590	595	600	605	610
Power Tolerance - P_{MAX} (W)	0 - +5						
Max Power Voltage - V_{MPP} (V)	45.07	45.14	45.22	45.29	45.36	45.43	45.50
Max Power Current - I_{MPP} (A)	12.87	12.96	13.05	13.14	13.23	13.32	13.41
Open Circuit Voltage - V_{OC} (V)	53.74	53.81	53.87	53.94	54.02	54.10	54.13
Short Circuit Current - I_{SC} (A)	13.46	13.55	13.66	13.75	13.84	13.92	14.05
Module Efficiency - η_m (%)	22.45	22.65	22.84	23.03	23.23	23.42	23.61

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

Electrical Data (NOCT)

Maximum Power - P_{MAX} (Wp)	442	445	450	451	455	459	463
Maximum Power Voltage- V_{MPP} (V)	42.77	42.84	42.89	42.96	43.04	43.11	43.12
Maximum Power Current- I_{MPP} (A)	10.34	10.41	10.50	10.52	10.59	10.66	10.75
Open Circuit Voltage - V_{OC} (V)	51.13	51.19	51.21	51.36	51.37	51.44	51.47
Short Circuit Current- I_{SC} (A)	10.90	10.97	11.06	11.08	11.16	11.22	11.32



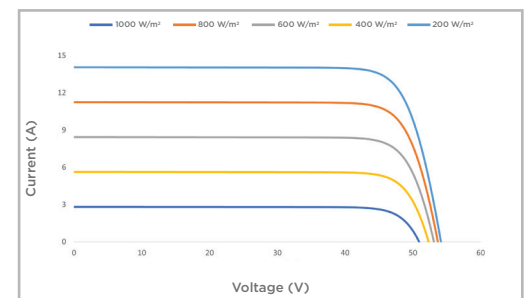
FRAME DETAILS (D)



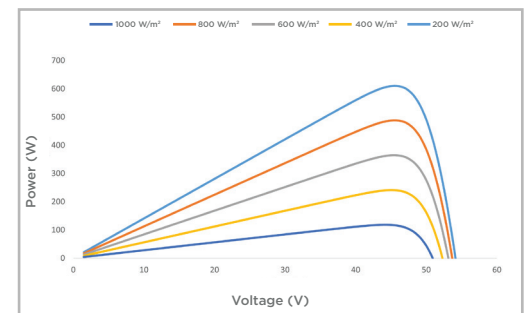
FRAME DETAILS (E)

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.

MECHANICAL DATA

Solar Cells	Bifacial TOPCon
No. of cells	144 Half cut
Module Dimensions	2278 × 1134 × 30 mm
Weight	31.5 kg
Front Glass	2 mm, High Transmission glass, Tempered ARC 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}	- 0.29%/°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
1% First Year Degradation
0.40% Annual Power Attenuation

PACKING CONFIGURATION

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

Document Number: RP/SS/M10R/TC/144B/D/002

Contact pv.marketing@renew.comReNew.Hub,
Commercial Block-1, Zone-6, Golf Course Road,
DLF City Phase-V, Gurugram -122009

For any inquiries or queries about ReNew solar panels, call 9220 440 044