

G12R CELLS
TOPCON
MODULE

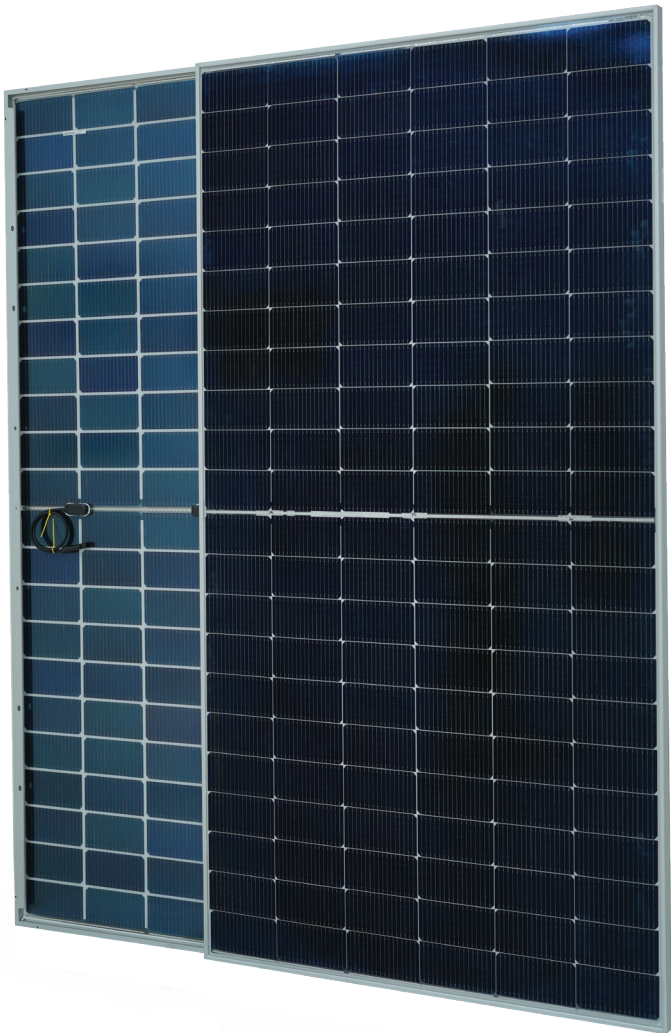
RPS3MH66BDXXX

BIFACIAL
615-640W



Comprehensive System Certifications

ISO 9001:2015: Quality Management system
ISO 14001:2015: Environment Management system
ISO 45001:2018: Occupational health and safety



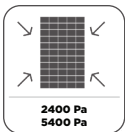
Advanced TOPCon technology

16 busbars to minimize micro-crack impacts / Half cut / G12R 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



640W

MAXIMUM POWER OUTPUT

23.69%

MAXIMUM EFFICIENCY

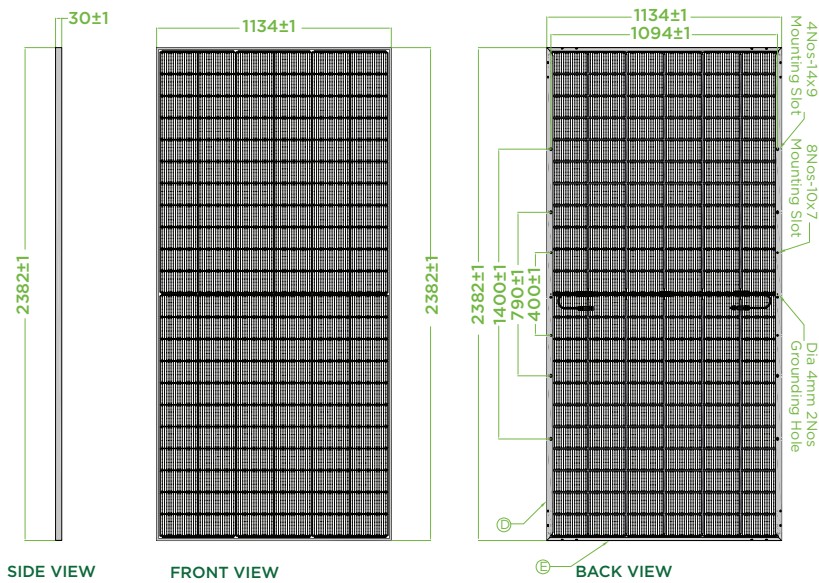
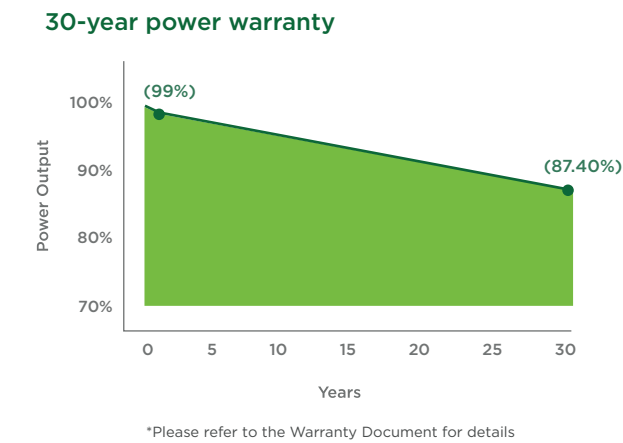
0~+5W

POSITIVE POWER TOLERANCE

1%FIRST YEAR POWER DEGRADATION

0.40 %SUBSEQUENT ANNUAL POWER DEGRADATION

GUARANTEED POWER



ELECTRICAL DATA

Electrical Data (STC)						
Peak Power- P_{MAX} (Wp)*	615	620	625	630	635	640
Power Tolerance - P_{MAX} (W)	0 ~ +5					
Max Power Voltage - V_{MPP} (V)	40.70	40.90	41.10	41.30	41.50	41.70
Max Power Current - I_{MPP} (A)	15.12	15.18	15.22	15.27	15.32	15.36
Open Circuit Voltage - V_{OC} (V)	48.62	48.80	49.01	49.20	49.40	49.60
Short Circuit Current - I_{SC} (A)	16.03	16.09	16.10	16.17	16.22	16.27
Module Efficiency - η_m (%)	22.77	22.95	23.14	23.32	23.51	23.69

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

MECHANICAL DATA

Solar Cells	Bifacial TOPCon
No. of cells	132 Half cut
Module Dimensions	2382 × 1134 × 30 mm
Weight	33.5 kg
Front Glass	2mm, High Transmission glass
Encapsulant	EPE / EVA
Rear Cover	2mm, 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	35A

WARRANTY

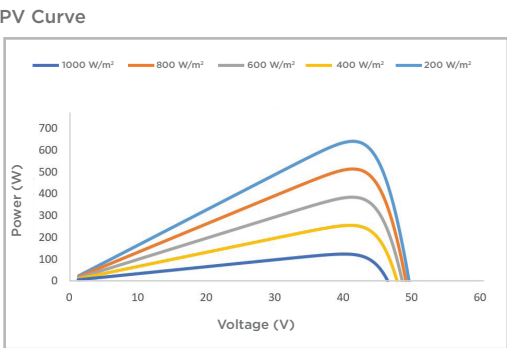
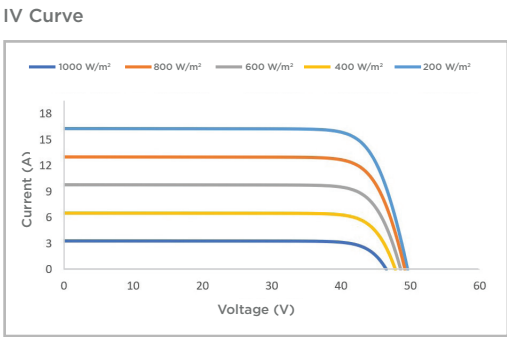
PACKING CONFIGURATION

12-year Product Workmanship Warranty	Modules per box: 36 pieces
30-year Power Warranty	Modules per 40' HC container: 720 pieces
1% First Year Degradation	
0.40% Annual Power Attenuation	

RP/SS/G12R/132/R/001



All dimensions are in mm



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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