

G12R CELLS TOPCON BIFACIAL MODULE

RPS3MH66BDXXX

BIFACIAL
605-640W



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



Factory Audit



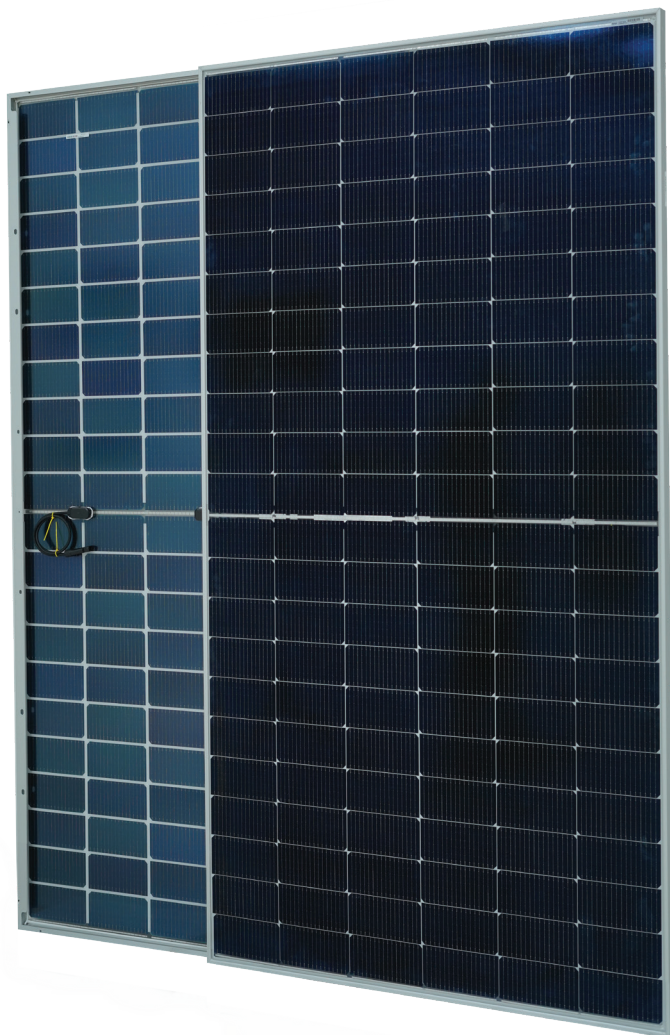
NEW ENERGY FINANCE



R-72009903



R-84003778



Advanced TOPCon technology

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

640W

MAXIMUM POWER OUTPUT

23.69%

MAXIMUM EFFICIENCY

0~+4.99W

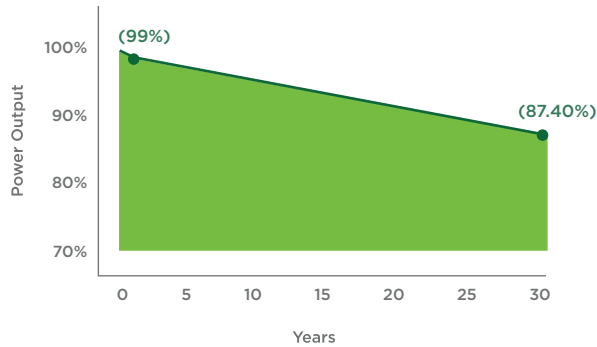
POSITIVE POWER BINNING

1% FIRST YEAR POWER DEGRADATION

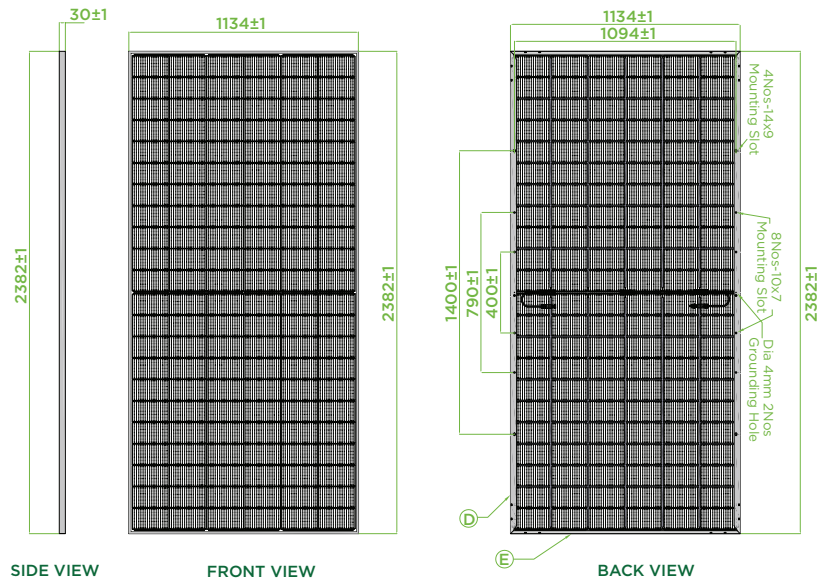
0.40% SUBSEQUENT ANNUAL POWER DEGRADATION

GUARANTEED POWER

30-year power warranty



*Please refer to the Warranty Document for details



ELECTRICAL DATA

Electrical Data (STC)

Peak Power-P _{MAX} (Wp)*	605	610	615	620	625	630	635	640
Power Binning - P _{MAX} (W)	0 ~ +4.99							
Max Power Voltage - V _{MPP} (V)	40.30	40.50	40.70	40.90	41.10	41.30	41.50	41.70
Max Power Current - I _{MPP} (A)	15.03	15.08	15.12	15.18	15.22	15.27	15.32	15.36
Open Circuit Voltage - V _{OC} (V)	48.22	48.41	48.62	48.80	49.01	49.20	49.40	49.60
Short Circuit Current - I _{SC} (A)	15.93	15.98	16.03	16.09	16.10	16.17	16.22	16.27
Module Efficiency - η _m (%)	22.40	22.58	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 400 mm (Positive and Negative)
Bifacility	80±10%
Connector*	PV-CO02-xy, PV-ZH202B

* 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

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/G12R/132/R/004



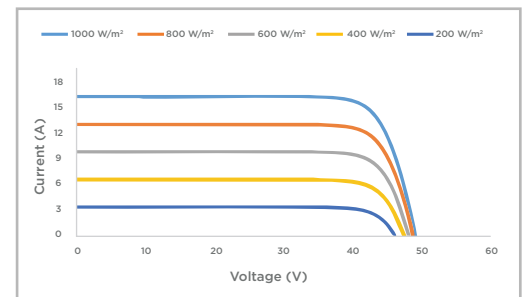
FRAME DETAILS (D)

All dimensions are in mm

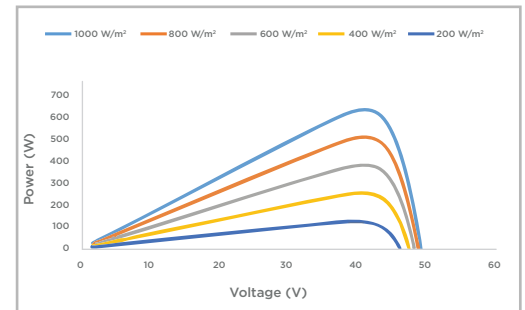


FRAME DETAILS (E)

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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