

G12R TOPCON BIFACIAL MODULE

RPS3MH66BDXXX

BIFACIAL
615-640W



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



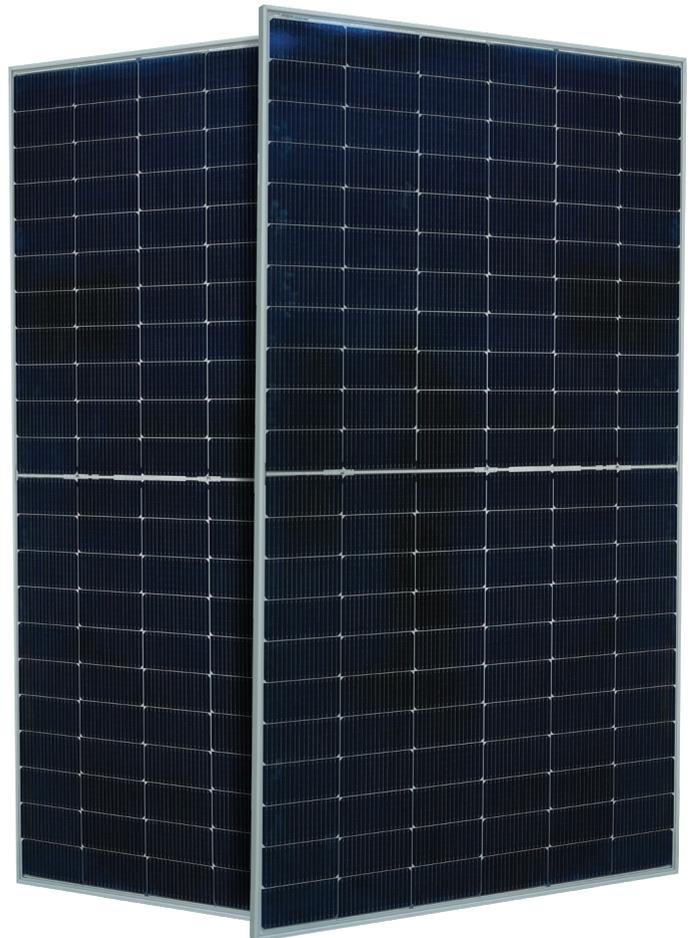
Factory Audit



Bloomberg
NEW ENERGY FINANCE



R-84003778



Advanced TOPCon technology

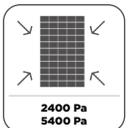
16 busbars to minimize micro-crack impacts / Half cut / G12R cell /
Smart soldering / Zero LID



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

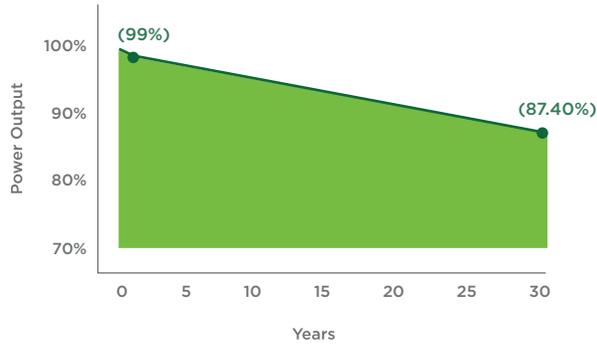
MAXIMUM POWER OUTPUT

23.69%

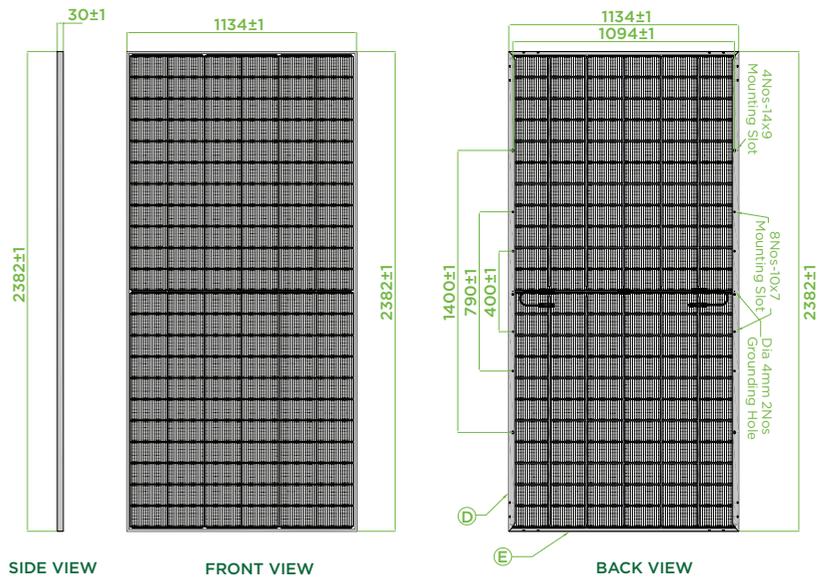
MAXIMUM EFFICIENCY

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)*	615	620	625	630	635	640
Power Binning - P_{MAX} (W)	0 ~ +4.99					
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)
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

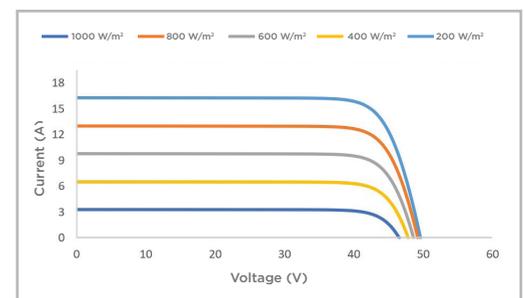
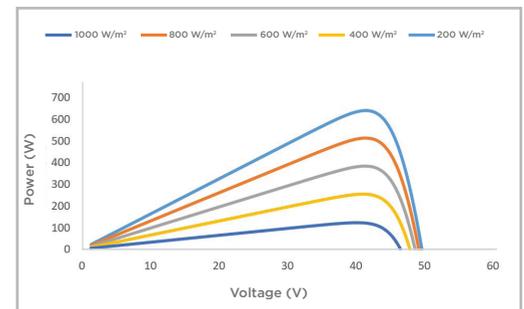
PACKING CONFIGURATION

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

RP/SS/G12R/132/R/003

**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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