

RG-SOLAR-PL-580-40V

Solar Panel Bifacial Topcon Mono 580W-40V



RANGER



Multiple Main Grid Design

Better light utilization and current collection capability.



Anti PID Guarantee

Minimized PID phenomenon by battery production technology optimization and material control.



Adaptability To Harsh Environments

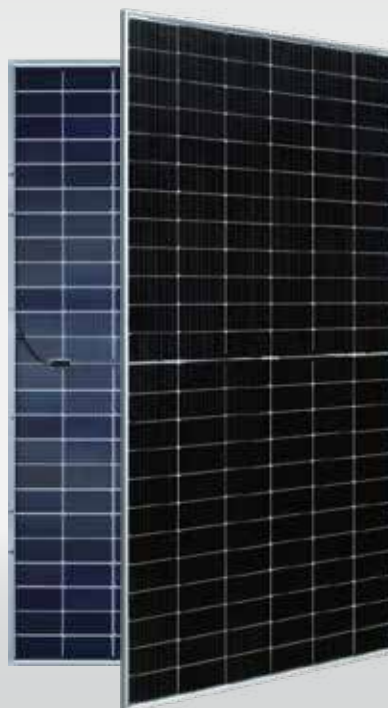
Third party certification through high salt spray and high ammonia corrosion test.



Robust Temperature Coefficient

Maintaining high efficiency even in high temperature zones (-40 to +85°C)

*All image and specification is subject to change without prior notice.



Mechanical and Design Specification

Cell type	n-Type TOPCon Technology, Half-cut cells, 182 mm
No. of cells	144
Bifaciality	80 ± 5%
Front cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm white glazed glass, tempered
Junction box	IP68 rated, 3 Bypass Diodes
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2278 mm x 1133 mm x 30 mm
Weight	31 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m ²
Snow load	5400 Pa or 550 kg/m ²
Fire Rating	Class A (according to UL 790)
Operating temperature (°C)	-40 to +85

Electrical Specifications

Nominal Max. Power	580
Maximum operating voltage	43.04
Maximum operating current	13.49
Open-circuit voltage	50.86
Short-circuit current	14.40
Module efficiency	22.47

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5), measurement tolerance P max: ±3%

Dimension Drawings (mm)

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