








## Solar Modules TOPCon 16BB 570 - 585 Wp

N-type TOPcon Bifacial

### PRODUCT | KEY FEATURES

-  Anti-Reflective (AR) Coated Glass for Enhanced Power
-  IP68 Junction Box for Long Term Endurance
-  Positive Power Tolerance with Current Binning to Prevent Mismatch Losses
-  Pre and Post EL Checking With High Resolution Camera
-  N-Type TOPCON with Zero LID Loss
-  100% Hi-Pot Testing to Ensure Safety
-  MBB Half-Cell Technology provides Better Performance under Partial Shading



### THE INDUSTRY'S BENCHMARK

Rayzon Solar is an internationally renowned leading solar energy cost effective befitting solutions provider having core competency in high efficiency PV module manufacturing and providing EPC solution. Rayzon PV modules are the best in class in terms of power output and long-term reliability.

### PRODUCT CERTIFICATES



### MADE IN INDIA

-  30 YEARS Linear Performance warranty\*
-  15 YEARS Product warranty on materials and workmanship\*\*

L'LLIOS (Bifacial)

# TECHNICAL DATA

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W, Power measurement uncertainty: < ±3%. Average value of NOCT: 44.28 ± 2 °C]

ELECTRICAL CHARACTERISTICS*	RS570144TGC		RSG575144TGC		RSG580144TGC		RSG585144TGC	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power (Pmax)	570 W	433 W	575 W	437 W	580 W	440 W	585 W	444 W
Optimum Operating Voltage (Vmp)	42.29 V	40.27 V	42.47 V	40.44 V	42.65 V	40.61 V	42.83 V	40.78 V
Optimum Operating Current (Imp)	13.48 A	10.75 A	13.54 A	10.80 A	13.60 A	10.84 A	13.66 A	10.89 A
Open Circuit Voltage (Voc)	51.06 V	48.40 V	51.26 V	48.59 V	51.46 V	48.78 V	51.66 V	48.97 V
Short Circuit Current (Isc)	14.26 A	11.50 A	14.32 A	11.55 A	14.38 A	11.59 A	14.44 A	11.65 A
Module Eff(%)	22.08 %		22.28 %		22.47 %		22.67 %	

## BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC\* [Bifaciality Factor: 80% ± 10%]

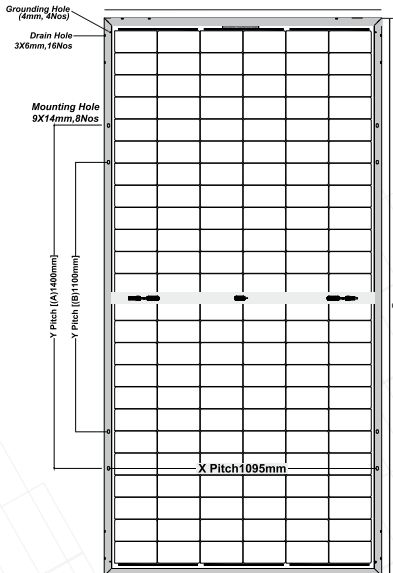
[Note: The bifacial gain depends on the power plant design and site conditions.]

		RS570144TGC	RSG575144TGC	RSG580144TGC	RSG585144TGC
5%	Nominal Maximum Power (Pmax)	599 W	604 W	609 W	614 W
	Module Eff (%)	14.97 A / 23.21 %	15.04 A / 23.40 %	15.10 A / 23.60 %	15.16 A / 23.79 %
10%	Nominal Maximum Power (Pmax)	627 W	633 W	638 W	644 W
	Module Eff (%)	15.69 A / 24.29 %	15.75 A / 24.53 %	15.82 A / 24.72 %	15.88 A / 24.95 %
25%	Nominal Maximum Power (Pmax)	713 W	719 W	725 W	731 W
	Module Eff (%)	17.83 A / 27.63 %	17.90 A / 27.86 %	17.98 A / 28.09 %	18.05 A / 28.32 %

## Mechanical Specifications

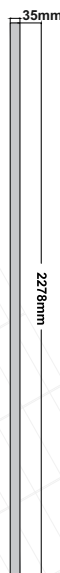
Dimensions (L x W x T in mm)	2278 x 1133 x 35
Weight(kg)	33
Cell type / No Of Cell	144 Half-cut N-type TOPCon Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	Low Iron Heat-strengthened AR coated Glass (2 mm thick)
Encapsulate	PID resistant and UV resistant Polymeric Film
Back Cover	Low Iron Heat-strengthened Glass (2 mm thick)
Junction Box	Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	50 A, 45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 400 mm length (Customised cable length available on request)
Connectors	MC4 compatible
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 1100, (Holes at 400 mm Y-pitch for tracker can be provided on customer request)
Mounting Holes Pitch (X)-mm	1095

### BACK VIEW

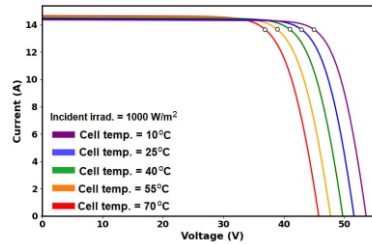


\*All dimensions are in mm with +/- 2mm tolerance.

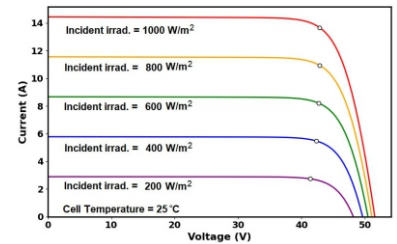
### SIDE VIEW



### IV Curve Variation with Temperature

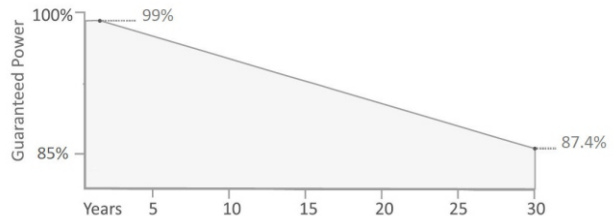


### IV Curve Variation with Irradiance



### IV Curves for Front-Side Illumination of 585 Wp Panel

#### LINEAR PERFORMANCE WARRANTY



\*graphics shown herein above are reference purpose only.

MAXIMUM OPERATING CONDITIONS	TEMPERATURE COEFFICIENTS	STACKING STANDARD	19FT	32FT	40FT
Operating Temperature: -40°C to +85°C	Current α(Isc) : 0.04 %/°C	No. of Modules per Container:	216	432	594
Maximum System Voltage: 1500V	Voltage β(Voc) : -0.25 %/°C	No. of Pallets per Container:	08	16	22
Maximum Series Fuse Rating: 30 A	Power γ(Pmax) : -0.30 %/°C	No. of Modules per Pallet/Weight:	27 Nos/930 Kg		
		Pallet Dimensions:	2320*1000*1275		

**Caution:** Please read safety and installation instructions before using the product. **\*Warranty:** Linear performance warranty for 30 years, with degradation up to 1% in 1st year and linear power degradation rate of 0.40%/year from year 2 to year 30. Please read Rayzon warranty documents thoroughly. Disclaimer: Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. RAYZON SOLAR PVT. LTD. reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.