RAYZON SOLAR

L'LIOS

610 Wp - 625 Wp

N-TYPE TOPCON 16BB
BIFACIAL(GLASS TO GLASS)

30 Years Warranty for Linear Performance*

15 Years Product Warranty on Materials and Workmanship*

PRODUCT | CERTIFICATES

IS 14286, IEC: 61215, 61730, 62804, 61583, 61701, 62716 •
Quality Management System : ISO 9001: 2015 •
Environment Management System : ISO 14001: 2015 •
Occupational Health and Safety : ISO 45001: 2018 •

PRODUCT | KEY FEATURES

- Anti-reflective (AR) Coated Glass for Enhanced Power
- Excellent Module Efficiency with Bifacial Power Gain
- Rayzon Solar Module ensures Long-term reliability
- Positive Power Tolerance with Current Binning to Prevent Mismatch Losses

TECHNICAL DATA

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: < ±3%. Average value of NOCT: 45.08 ± 2 °C]

ELECTRICAL CHARACTERISTICS*

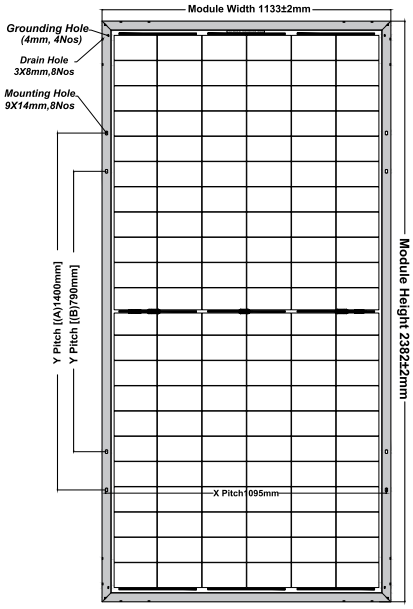
	RS610132TGC		RS615132TGC		RS620132TGC		RS625132TGC	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power (Pmax)	610 W	457 W	615 W	461 W	620 W	465 W	625 W	468 W
Optimum Operating Voltage (Vmp)	40.67 V	38.20 V	40.85 V	38.36 V	41.02 V	38.52 V	41.19 V	38.69 V
Optimum Operating Current (Imp)	14.99 A	11.97 A	15.06 A	12.02 A	15.12 A	12.07 A	15.18 A	12.12 A
Open Circuit Voltage (Voc)	48.17 V	45.42 V	48.36 V	45.60 V	48.55 V	45.78 V	48.73 V	45.96 V
Short Circuit Current (Isc)	15.77 A	12.71 A	15.84 A	12.76 A	15.90 A	12.82 A	15.97 A	12.87 A
Module Efficiency	22.60 %		22.79 %		22.97 %		23.16 %	

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

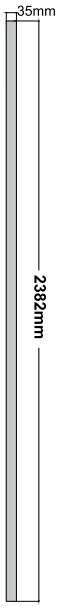
[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)]

5%	Nominal Maximum Power (Pmax)	640 W	645 W	651 W	656 W
	Module Short Circuit Current / Efficiency	16.56 A / 23.97 %	16.63 A / 24.17 %	16.70 A / 24.37 %	16.77 A / 24.56 %
10%	Nominal Maximum Power (Pmax)	671 W	676 W	682 W	687 W
	Module Short Circuit Current / Efficiency	17.35 A / 25.12 %	17.42 A / 25.32 %	17.49 A / 25.53 %	17.57 A / 25.74 %
25%	Nominal Maximum Power (Pmax)	762 W	769 W	775 W	781 W
	Module Short Circuit Current / Efficiency	19.71 A / 28.54 %	19.79 A / 28.78 %	16.88 A / 29.01 %	19.96 A / 29.24 %

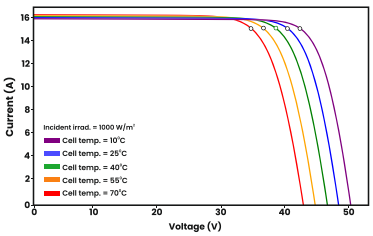
BACK VIEW



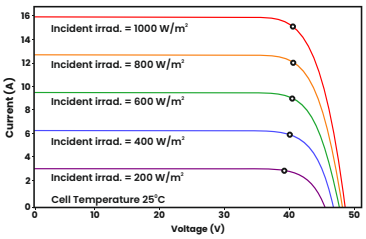
SIDE VIEW



IV Curve Variation with Temperature

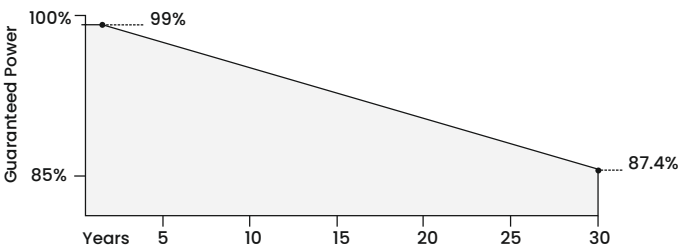


IV Curve Variation with Irradiance



IV Curves for Front-Side Illumination of 625 Wp Panel

LINEAR PERFORMANCE WARRANTY



MECHANICAL SPECIFICATIONS

Dimensions	2382(L) x 1133(W) x 35(T)
Weight(kg)	34.5
Cell type / No Of Cell	132 Half-cut N-type TOPCon Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	Low Iron semi-Tempered AR coated Glass (2 mm thick)
Encapsulate	PID resistant and UV resistant Polymeric Film
Back Cover	Low Iron semi-Tempered Glass (2 mm thick)
Junction Box	30A Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 300 mm length (Customised cable length available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test	5400 Pa-Front; 2400 Pa-Back (as per IEC & UL)
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 790, (Holes at 400 mm Y-pitch for tracker can be provided on customer request)
Mounting Holes Pitch (X)-mm	1095

MAXIMUM OPERATING CONDITIONS

Operating Temperature:	-40°C to +85°C
Maximum System Voltage:	1500V
Maximum Series Fuse Rating:	30 A

TEMPERATURE COEFFICIENTS

Current α (Isc) :	0.0265%/Ċ
Voltage β (Voc) :	-0.2261%/Ċ
Power ϒ (Pmax) :	-0.2909%/Ċ

STACKING STANDARD

	20FT	40FT
No. of Modules per Container:	124	558
No. of Pallets per Container:	4	18
No. of Modules per Pallet/Weight:	31 Nos/1110 Kg	
Pallet Dimensions in mm :	2420(L)*1130(W)*1275(H)	

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 0.4 %/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.