MICROTEK

Solar Modules
625 Wp (NON-DCR)

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

MODEL:
RS625132TGC

MADE IN INDIA

30 YEARS — Industry leading linear power output warranty*

15 YEARS — Product warranty on materials and workmanship**

* First year power degradaton warranty shall be 2% and linear power warranty from year 2 to year 30. w.e.f. 1st October 2025.

**15 years product warranty for Dual Glass modules and 12 years product warranty for modules with transparent backsheet. w.e.f. 1st October 2025.

PRODUCT | CERTIFICATES

IS 14286, IEC: 61215, 61730, 62804, 61853, 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*

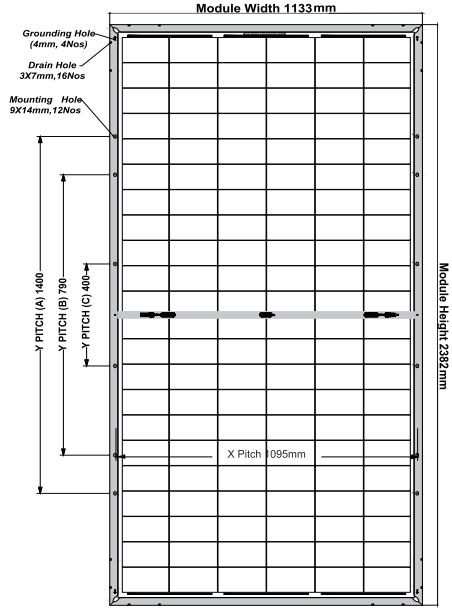
	RS625132TGC	
	STC	NOCT
Nominal Maximum Power (Pmax)	625 W	468 W
Optimum Operating Voltage (Vmp)	41.52 V	38.99 V
Optimum Operating Current (Imp)	15.06 A	12.02 A
Open Circuit Voltage (Voc)	49.18 V	46.38 V
Short Circuit Current (Isc)	15.73 A	12.68 A
Module Efficiency	23.16 %	

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 80% ± 05%]

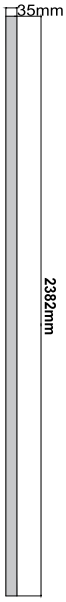
[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)]

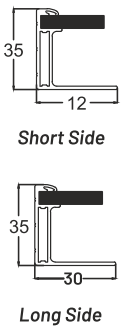
5%	Nominal Maximum Power (Pmax)	656 W
	Module Short Circuit Current / Efficiency	16.52 A / 24.32 %
10%	Nominal Maximum Power (Pmax)	687 W
	Module Short Circuit Current / Efficiency	17.30 A / 25.47 %
25%	Nominal Maximum Power (Pmax)	781 W
	Module Short Circuit Current / Efficiency	19.66 A / 28.95 %

BACK VIEW



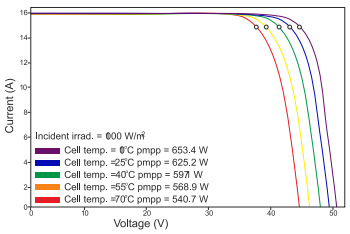
SIDE VIEW



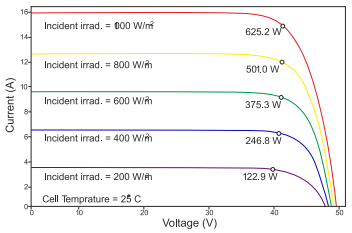


*All dimensions are in mm with +/- 2mm tolerance.

IV Curve Variation with Temperature

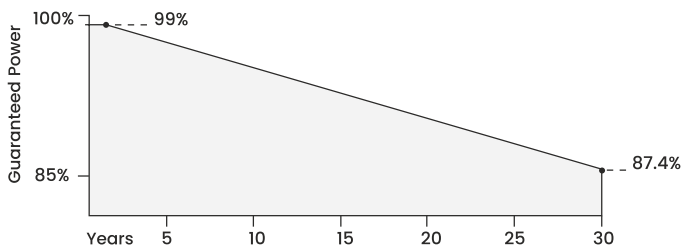


IV Curve Variation with Irradiance



IV Curves for Front-Side Illumination of 625 Wp Panel

LINEAR PERFORMANCE WARRANTY



MECHANICAL SPECIFICATIONS

Dimensions	2382(L) x 1133(W) x 35(T) in mm
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	35A 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,[C] 400
Mounting Holes Pitch (X)-mm	1095

MAXIMUM OPERATING CONDITIONS

Operating Temperature:	-40°C to +85°C
Maximum System Voltage:	1500V
Maximum Series Fuse Rating:	35 A

TEMPERATURE COEFFICIENTS

Current α (Isc) :	0.0350%/Ċ
Voltage β (Voc) :	-0.2277%/Ċ
Power ϒ (Pmax) :	-0.2827%/Ċ

STACKING STANDARD	20FT	32FT	40FT
No. of Modules per Container (31 Nos/32 Nos):	288	448	640
No. of Pallets per Container:	09	14	20
No. of Modules per Pallet/Weight:	32 Nos/1165 Kg		
Pallet Dimensions in mm (32 Nos) :	2420(L)*1170(W)*1275(H)		

Caution: Please read safety and installation instructions before using the product.

NOTE: Because of a policy of continuous product improvement, the specifications are subject to change without notice.

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