

# PLATINUM SERIES

High Efficiency N-type TOPCon Bifacial G12R  
Glass to Glass Module

**600 - 635 Wp**

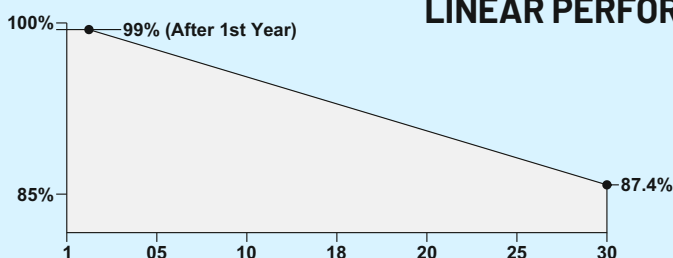
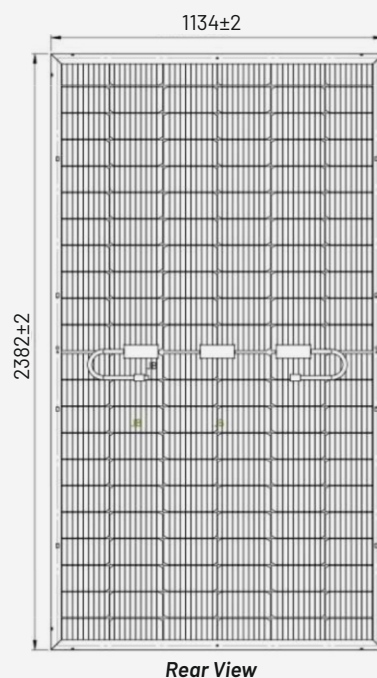
600 Wp | 605Wp | 610 Wp | 615 Wp  
620 Wp | 625 Wp | 630 Wp | 635 Wp  
INA132T210RGGFXXX (XXX = 600-635 Wp)



APPLICATION : RESIDENTIAL | COMMERCIAL | INDUSTRIAL  
SOLAR PUMP | SOLAR PARK

## KEY FEATURES

1. LCOE is reduced with lower BOS costs, improving the product's value proposition and ensuring a competitive ROI.
2. Two peak performance periods for the optimal utilization of bifacial generation.
3. Hassle-free installation with the ability to be mounted vertically in the East-West direction, offering improved resistance to soiling.
4. Lower internal resistance boosts module power, helping to minimize power loss.
5. Excellent PID performance guarantees limited power degradation.
6. Reliable quality ensures better sustainability even in harsh environments such as deserts, farms, and coastlines with ammonia exposure.
7. Cylindrical tabbing wire is used to minimize shading on the cell's active area.
8. A higher number of busbars makes PV modules less prone to efficiency loss and increases tolerance to microcracks.
9. Positive Power Tolerance.
10. Higher Efficiency.
11. Lower Temperature Coefficient.
12. Low Attenuation, Long Warranty.
13. Higher Bifaciality.



**12-Year Product Warranty on  
Materials and Workmanship\***



**30-Year Warranty for  
Linear Performance\***

## CERTIFICATIONS & STANDARDS:

IS 14286 (Part 1/Sec 1): 2023/ IEC 61215-1-1: 2021

IS/IEC 61730 : PART 1 (2016) IS/IEC 61730 : PART 2 (2016)

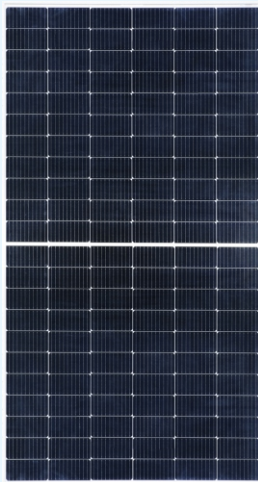
\*IEC 62716, IEC 62804, IEC 60068-2-68, IEC 61853, IEC 61701

\*(Certifications are under process)

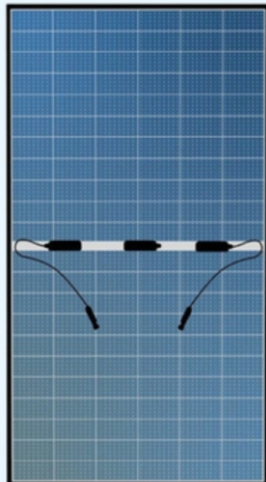
Caution: Please read safety and installation instructions before using the product. \*Warranty: Linear performance warranty for 30 years, with degradation up to 1% in 1st year and 0.4%/year from year 2 to year 30. Please read Insolation Energy Ltd. warranty documents thoroughly.



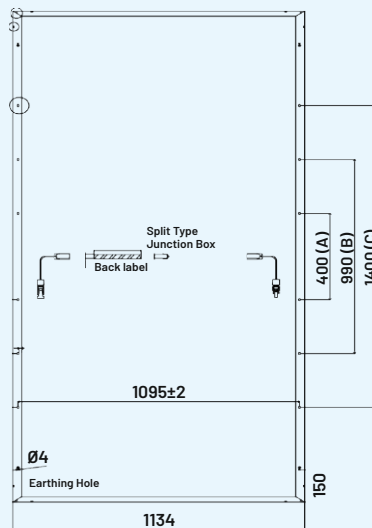
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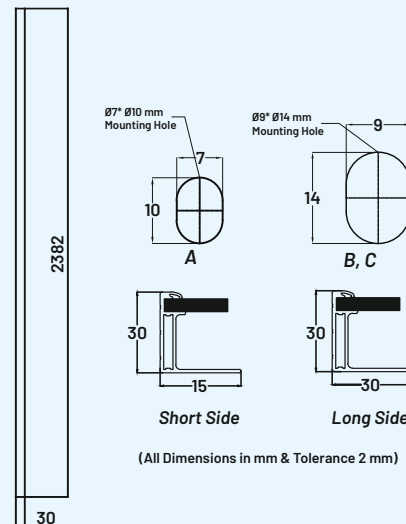
Front View



Rear View



Mechanical Drawing



Side View

## TECHNICAL DATA

\*STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C, Am=1.5;

\*NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, Am=1.5, Wind speed 1m/sec. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty 0~3%

Module Type	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power -Pmax (Wp)	600	449	605	453	610	457	615	461	620	464	625	468	630	472	635	476
Maximum voltage (Vmpp) (V)	40.44	37.88	40.52	38.04	40.60	38.2	40.68	38.36	40.75	38.52	40.84	38.69	40.92	38.86	41.00	39.03
Maximum current (Impp) (A)	14.84	11.87	14.93	11.92	15.03	11.97	15.12	12.02	15.21	12.07	15.3	12.12	15.40	12.17	15.49	12.22
Open circuit voltage (Voc) (V)	46.81	45.06	46.93	45.24	47.05	45.42	47.06	45.6	47.25	45.78	47.36	45.96	47.47	46.14	47.59	46.32
Short circuit current (Isc) (A)	15.55	12.61	15.61	12.66	15.65	12.71	15.69	12.76	15.73	12.82	15.76	12.87	15.79	12.92	15.82	12.97
Module Efficiency (%)	22.14		22.33		22.60		22.79		22.97		23.16		23.25		23.44	
Operating Temperature range (°C)	-40 to +85°C				Power Tolerance				Positive Power Tolerance							
Maximum series fuse rating	30A				Maximum system voltage				DC1500V (IEC)							
Temperature coefficients of Isc (α)	0.0265%/°C				Application				Class-A							
Temperature coefficients of Pmax (γ)	-0.2909%/°C				Safety Class				Class II							
Temperature coefficients of Voc (β)	-0.2261%/°C				Application Rating				Class A							

\*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)]

\*\*Power gain from rear side depends upon the ground reflectance (Albedo) 8 Bifaciality factor.

Bifacial Gain	Measurement	Unit	600	605	610	615	620	625	630	635
5%	Maximum Power (Pmax)	Wp	630	635	641	646	651	656	662	667
	Module Efficiency	%	23.26	23.45	23.64	23.84	24.03	24.22	24.42	24.61
10%	Maximum Power (Pmax)	WP	660	666	671	677	682	688	693	699
	Module Efficiency	%	24.36	24.57	24.77	24.97	25.18	25.38	25.58	25.78
15%	Maximum Power (Pmax)	WP	690	696	702	707	713	719	725	730
	Module Efficiency	%	25.47	25.68	25.90	26.11	26.32	26.53	26.74	26.96

## MECHANICAL SPECIFICATIONS

Cell type / No Of Cell	132 Half-cut N-type TOPCon Bifacial G12R Solar cells
Dimensions	2382×1134×30mm (LxWxH)
Weight(kg)	33.5±0.5 Kg
Front Glass	2.0mm AR-coated heat-strengthened glass
Encapsulate	EPE/POE (Expanded polyethylene foam/Polyolefin Elastomer)
Rear Glass	2.0mm heat-strengthened glass
Junction Box	30A Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Solar Cable	4sq mm, 300 mm length x 2 Nos.
Connectors	MC4 Compatible Connector IEC/UL Certified
Frame Material	Anodized aluminum alloy, silver color
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Hail Test	Max. diameter of 25 mm with velocity 23 m/s

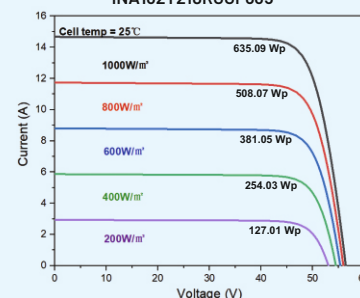
**CAUTION: READ SAFETY AND DETAIL INSTALLATION MANUAL BEFORE USING THE PRODUCT**  
(Refer Our Website).

Note: • The specifications included in this datasheet are subject to change without notice.

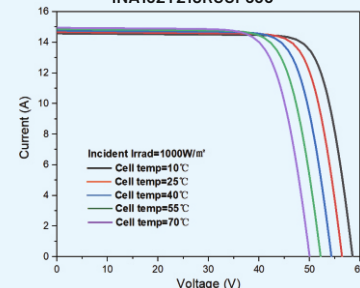
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order. All models sold will be per INA QAP.

\*\* Warranty: Please read INA solar warranty documents thoroughly.

### I-V CHARACTERISTICS AT DIFFERENT IRRIDANCE INA132T210RGGF635



### I-V CHARACTERISTICS AT DIFFERENT TEMPERATURES INA132T210RGGF635



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