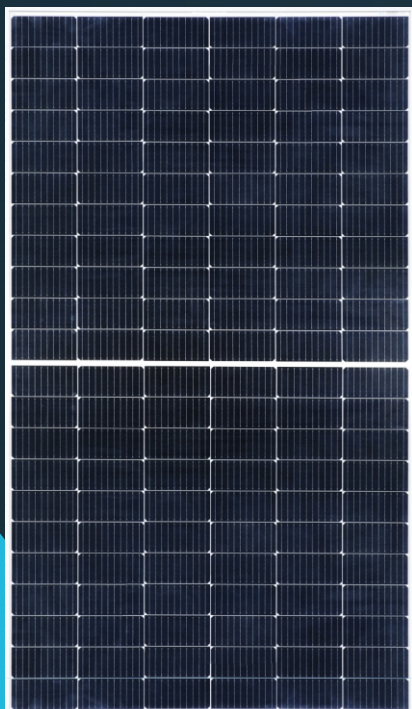




PLATINUM SERIES

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

615 - 635 Wp

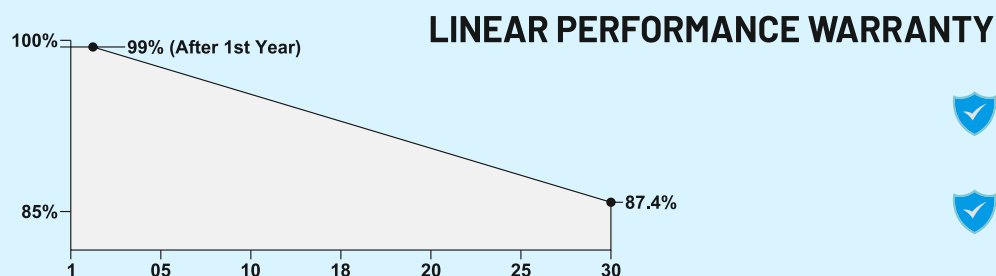
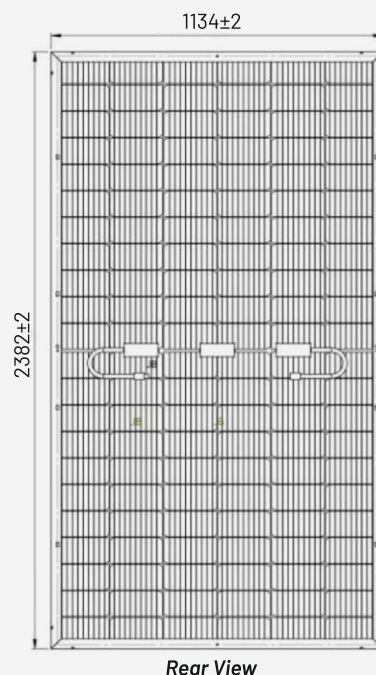
615 Wp | 620 Wp
625 Wp | 630 Wp | 635 Wp
INA132T210RGGFXXX (XXX = 615-635 Wp)



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*

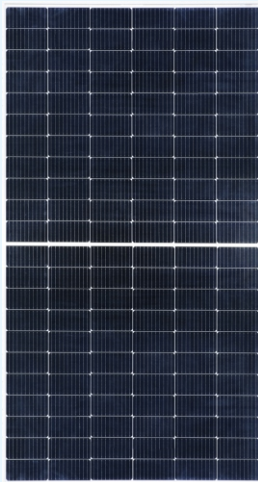
CERTIFICATIONS & STANDARDS:

IS: 14286/IEC 61215, IEC 61730-1 and IEC 61730-2,
IEC 62716, IEC 62804, IEC 60068-2-68, IEC 61853, IEC 61701

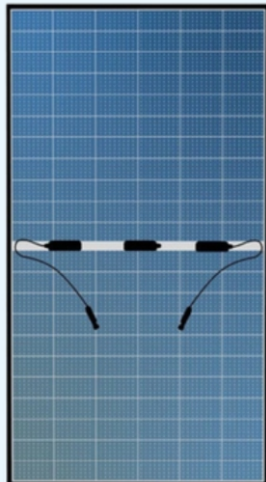
Caution: Please read safety and installation instructions before using the product. *Warranty: Linear performance warranty for 30 years, with degradation up to 1% in 1st year and 0.4%/year from year 2 to year 30. Please read Insolation Energy Ltd. warranty documents thoroughly.

Doc No. - IGEPL/TDS/G12, Rlssue No./Date - 00/12.10.25, Rev No./Date - 01/20.12.2025

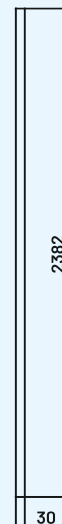
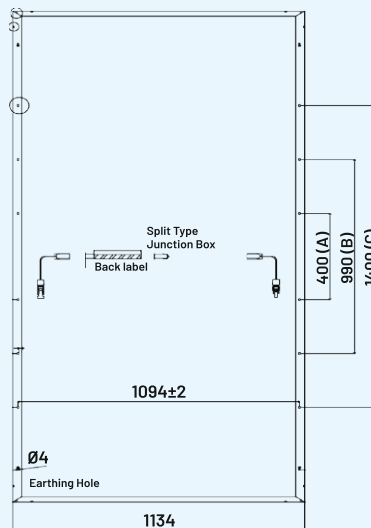




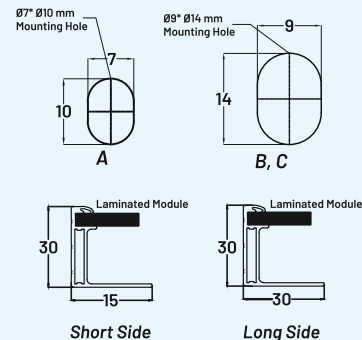
Front View



Rear View



Side View



TECHNICAL DATA

*STC: Irradiance 1000 W/m² module temperature 25°C, Am=1.5; All electrical parameters tolerance except Pmax, ±3%

*NOCT: Irradiance 800 W/m², ambient temperature 20°C, Am=1.5, Wind speed 1m/sec. Average power reduction of 4.5% at 200 W/m² as per IEC 60904-1. Measuring Uncertainty 0~3%

Module Type	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power - Pmax (Wp)	615	464	620	468	625	472	630	471	635	475
Maximum voltage (Vmpp) (V)	40.60	38.10	40.74	38.25	40.88	38.44	41.02	38.48	41.16	38.61
Maximum current (Impp) (A)	15.15	12.19	15.22	12.24	15.29	12.28	15.36	12.26	15.43	12.31
Open circuit voltage (Voc) (V)	48.88	46.43	49.08	46.62	49.28	46.81	49.48	46.69	49.68	46.88
Short circuit current (Isc) (A)	16.02	12.93	16.08	12.98	16.14	13.03	16.20	12.99	16.26	13.04
Module Efficiency (%)	22.77		22.95		23.14		23.32		23.51	
Operating Temperature range (°C)	-40 to +85°C				Power Tolerance				0 ~ + 3 %	
Maximum system voltage	DC1500V (IEC)				Nominal operating cell temperature (NOCT)				45 ± 2 °C	
Maximum series fuse rating	30A				Application				Class - A	
Temperature coefficients of Isc (α)	0.043%/°C				Safety Class				Class - II	
Temperature coefficients of Pmax (γ)	-0.29%/°C				Application Rating				Class - A	
Temperature coefficients of Voc (β)	-0.25%/°C									

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	615	620	625	630	635
5%	Maximum Power (Pmax)	Wp	646	651	656	662	667
	Module Efficiency	%	23.84	24.03	24.22	24.42	24.61
10%	Maximum Power (Pmax)	WP	677	682	688	693	699
	Module Efficiency	%	24.97	25.18	25.38	25.58	25.78
15%	Maximum Power (Pmax)	WP	707	713	719	725	730
	Module Efficiency	%	26.11	26.32	26.53	26.74	26.96

MECHANICAL SPECIFICATIONS

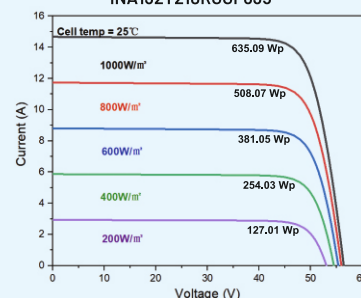
Cell type / No of Cell	132 Half-cut N-type TOPCon Bifacial G12R Solar cells
Dimensions	2382×1134×30mm (LxWxH)
Weight (Kg)	32.5±0.5 Kg
Front Cover	2.0mm AR-coated heat-strengthened glass
Encapsulation	PID resistant and UV resistant polymeric film (EPE/EPE)
Rear Cover	2.0mm heat-strengthened glass
Junction Box	30A Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Solar Cable	4 sqmm, 300 mm length x 2 Nos. (Can be customize as per customer requirement)
Connectors	MC4 Compatible Connector IEC/UL Certified
Frame Material	Anodized silver aluminum frame
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Hail Test	Max. diameter of 25 mm with velocity 23 m/s
Standard Packaging	37 in 1 Pallet, (20 pallets in 40Ft vehicle) Total Qty: 740 Nos

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

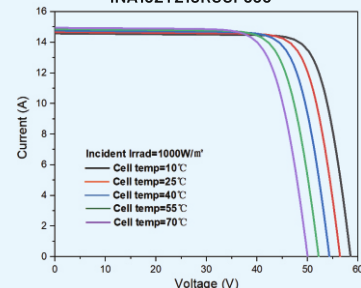
- Note: • The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
 - Please confirm your exact requirements with the sales representative while placing your order.
 - All models sold will be as per INA QAP.

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

I-V Characteristics at Different Irridance
INA132T210RGGF635



I-V Characteristics at Different Temperatures
INA132T210RGGF635



INSOLATION ENERGY LTD. | INSOLATION GREEN ENERGY PVT. LTD.

Corporate Office: Fluidcon House, C-02, New Aatish Market Extension, Jaipur - 302020 (Raj.)

For Sales Enquiries Call: +91 7240 444 666

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