

HELOC[®] PRO

GS10-T108-TF (415 Wp - 440 Wp)



High Saving
Lower LCOE, reduced BOS cost, shorter payback time



High Efficiency
Excellent module conversion efficiency of up to 22.43%



Better Weak Illumination Response
Higher power output even under low-light environments like on cloudy or foggy days



ZERO LID (Light Induced Degradation)
N-Type Solar cell Technology offers No-LeTID & No-LID



PID Resistance
Excellent Anti-PID Performance guarantee limited power degradation for mass production



10-30% Additional Power Generation
More than 10-30% additional power gain comparing with the regular modules.



Wider Applicability
More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area



INDUSTRY LEADING PROTECTION



12 Years Warranty For Materials And Processing



25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-T108-GF					
Capacity rating - Pmax(Wp)	415	420	425	430	435	440
Power Tolerance (%)	0-2					
Module efficiency (%)	21.15	21.40	21.66	21.91	22.17	22.43
Rated voltage - Vmp(V)	31.31	31.50	31.69	31.87	32.06	32.25
Rated current - Imp(A)	13.26	13.34	13.42	13.50	13.58	13.66
Open circuit voltage - Voc(V)	37.91	38.10	38.29	38.48	38.67	38.86
Short circuit current - Isc(A)	14.00	14.08	14.16	14.24	14.32	14.40

Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and Module temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±5%.

Electrical Characteristics with 10% rear side power gain[#]

Capacity rating - Pmax(Wp)	456	462	467	473	479	484
Rated voltage - Vmp(V)	31.31	31.50	31.69	31.87	32.06	32.25
Rated current - Imp(A)	14.59	14.67	14.76	14.85	14.94	15.02
Open circuit voltage - Voc(V)	37.91	38.10	38.29	38.48	38.67	38.86
Short circuit current - Isc(A)	15.40	15.49	15.58	15.66	15.75	15.84

[#] Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 80 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to +85°C
Maximum system voltage	1500 VDC
NOCT	45 ± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

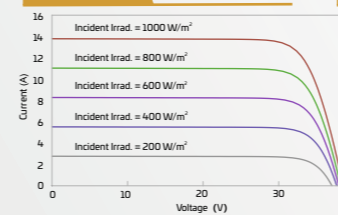
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax)	-0.30% /°C

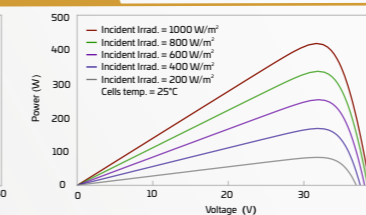
PACKAGING CONFIGURATION^{###}

Number of Modules per Pallet	36
No of pallet	26
No of module, 40ft HC container	936

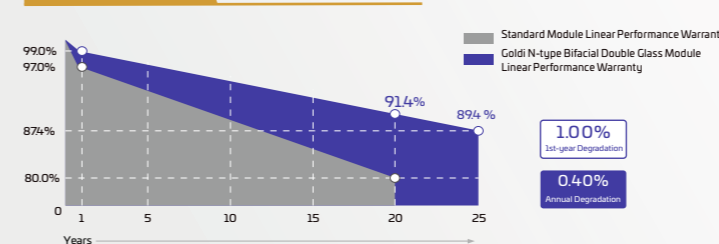
IV CURVE



PV CURVE



LINEAR GRAPH



12 Years Product Material & Workmanship | 25 Years Linear Performance Warranty

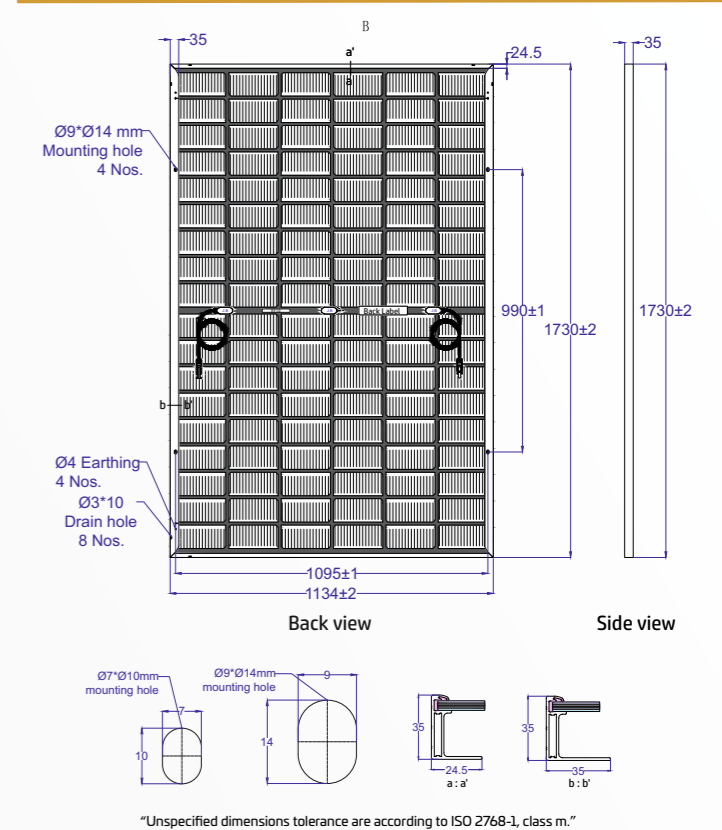
UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

- ^{###}Quantity of modules/container may get changed without prior notice.
- For handling & installation instructions, refer to Goldi's installation manual available on the company website
- Before placing an order, confirm your requirements with our sales representative
- The electrical data provided is for reference purposes only
- PV modules needs to be disposed as per government regulations, after it's life cycle
- Refer to Goldi's warranty document for terms and conditions
- Due to constant product modifications, Goldi reserves the right to amend the above specifications without prior notice
- Images in the datasheet are for representation purpose only

MECHANICAL SPECIFICATION

Solar cells	108 HC TOPCon Cell technology, Multi BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
Backside	UV protected black backsheet
Frame	Black Anodized Aluminium Alloy
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1730 mm x (W) 1134 mm x (H) 35 mm ^{***}
Weight	~21.5 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	30 A
Cable	4 mm ² , Solar cable 400mm/1400mm length or Customized length
Connectors	Mc4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



PRODUCT CERTIFICATIONS

CE

MANAGEMENT SYSTEM CERTIFICATIONS



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