

HELOC[®] PRO

GS10-T144-GF
(565 Wp - 595 Wp)



High Saving

Lower LCOE, reduced BOS cost,
shorter payback time



High Efficiency

Excellent module conversion
efficiency of up to 23.03%



Better Weak Illumination Response

Higher power output even under low-light
environments like on cloudy or foggy days



LOW LID (Light Induced Degradation)

N-Type Solar cell Technology
offers Lower-LeTID & 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



30 Years Warranty For
Linear Power Output

BEST IN Grade Quality Class Results

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module						
Module Type	GS10-T144-GF						
Capacity rating – Pmax(Wp)	565	570	575	580	585	590	595
Power Tolerance (%)	0~2						
Module efficiency (%)	21.87	22.06	22.26	22.45	22.65	22.84	23.03
Rated voltage - Vmp(V)	45.35	45.40	45.45	45.50	45.55	45.85	45.95
Rated current - Imp(A)	12.47	12.56	12.67	12.75	12.85	12.88	12.95
Open circuit voltage - Voc(V)	52.82	52.85	52.89	52.95	53.10	53.13	53.17
Short circuit current - Isc(A)	13.54	13.56	13.58	13.61	13.64	13.65	13.66

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%. Measuring Uncertainty ±3%

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	621	627	633	638	644	649	655
Rated voltage - Vmp(V)	45.35	45.40	45.45	45.50	45.55	45.85	45.95
Rated current - Imp(A)	13.71	13.81	13.93	14.02	14.13	14.16	14.24
Open circuit voltage - Voc(V)	52.82	52.85	52.89	52.95	53.10	53.13	53.17
Short circuit current - Isc(A)	14.89	14.91	14.93	14.97	15.00	15.01	15.02

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

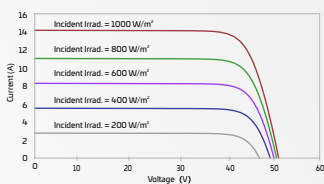
TEMPERATURE COEFFICIENTS (TC)

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

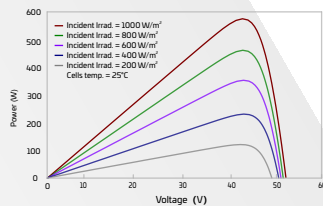
PACKAGING CONFIGURATION##

Number of Modules per Pallet	36
No of pallet	20
No of module, 40ft HC container	720

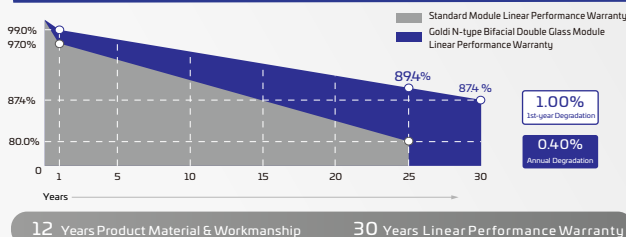
IV CURVE



PV CURVE



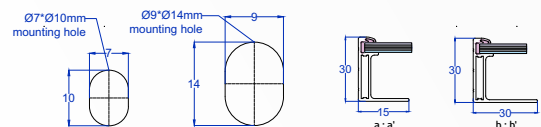
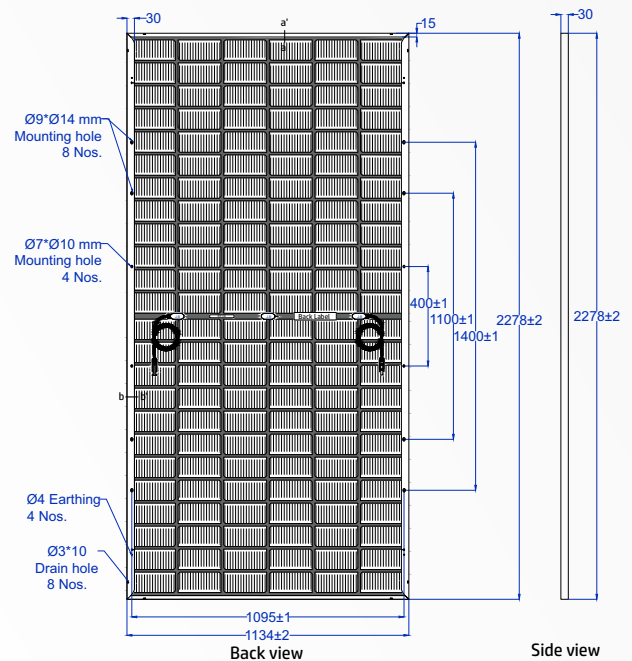
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	144 pcs TOPCon cell technology, 16 BB, M10R
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 2278 mm x (W) 1134 mm x (H) 30 mm"
Weight	~31.5 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)
Maximum Surface Load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2021, IEC 61730: 2023, IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004, IEC 61701, IEC 62716, IEC 60068-2-62, IEC CD 61215-2:2018, UL 61730-1 & 2, IEC 62804, IEC 62759, CEC



MANAGEMENT SYSTEM CERTIFICATIONS



UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL | INSTITUTIONAL

- ##Quantity of modules/container may get changed without prior notice. Confirm with our sales representative before placing order.
- 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 here is for reference purposes only
- Dispose of a product as e-waste after the end of its working life
- 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

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