

HELOC[®] PRO

GS10-B108-GF
(390 Wp - 415 Wp)



High Saving

Lower LCOE, reduced BOS cost, shorter payback time



PID Resistance

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



High Efficiency

Excellent module conversion efficiency of up to 21.17%



IP68 Junction Box

High waterproof level



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment



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-B108-GF					
Capacity rating – Pmax(Wp)	390	395	400	405	410	415
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	19.90	20.15	20.40	20.66	20.92	21.17
Rated voltage - Vmp(V)	30.77	30.95	31.10	31.27	31.44	31.61
Rated current - Imp(A)	12.69	12.77	12.87	12.96	13.05	13.14
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15	37.20	37.25
Short circuit current - Isc(A)	13.41	13.44	13.47	13.50	13.53	13.56

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 ±3%.

Electrical Parameter at NMOT	Bifacial Monocrystalline Module					
Capacity rating – Pmax(Wp)	289	292	296	300	304	307
Rated voltage - Vmp(V)	28.70	28.87	29.00	29.16	29.32	29.48
Rated current - Imp(A)	10.07	10.13	10.21	10.18	10.35	10.43
Open circuit voltage - Voc(V)	34.60	34.65	34.69	34.74	34.79	34.83
Short circuit current - Isc(A)	10.80	10.82	10.85	10.87	10.89	10.92

Irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	429	434	440	445	451	456
Rated voltage - Vmp(V)	19.90	20.15	20.40	20.66	20.92	21.17
Rated current - Imp(A)	13.96	14.05	14.16	14.26	14.35	14.45
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15	37.20	37.25
Short circuit current - Isc(A)	14.75	14.78	14.82	14.85	14.88	14.92

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 : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

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

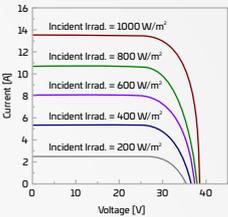
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.050% /°C
Temperature Coefficient (Pmax)	-0.32% /°C

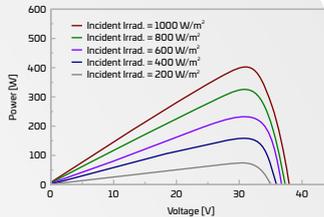
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	26
No of module, 40ft HC container	806

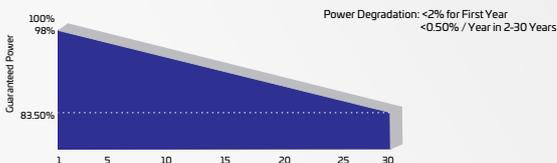
IV CURVE



PV CURVE



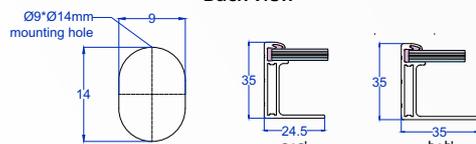
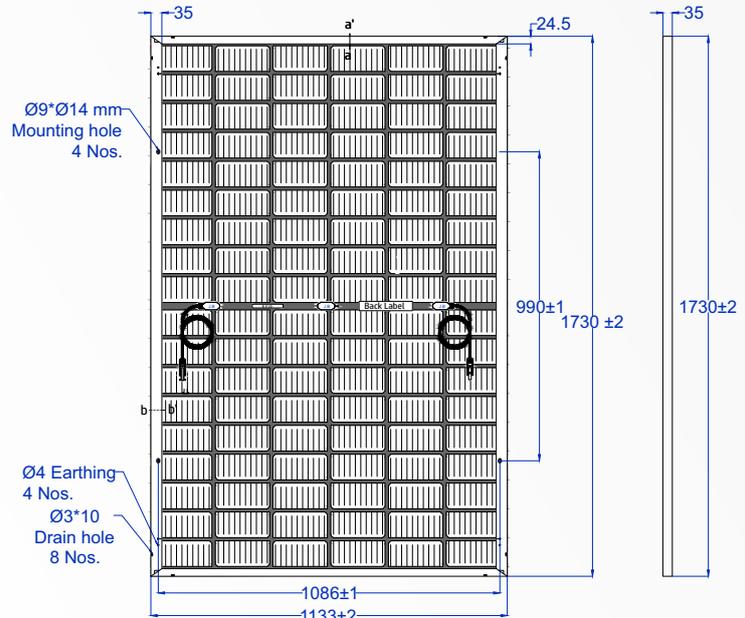
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	108 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
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) 1730 mm x (W) 1133 mm x (H) 35 mm"
Weight	~22 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 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)



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

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004, UL 61730-1 & 2, IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, CEC



MANAGEMENT SYSTEM CERTIFICATIONS



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

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