10 Years of Making a Difference

GOLDI SOLAR

HELOC® PRO | GS10-B120-TF

(435 Wp - 455 Wp)

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

High Efficiency
Excellent module conversion efficiency of up to 21.03%

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

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

IP68 Junction Box
High waterproof level

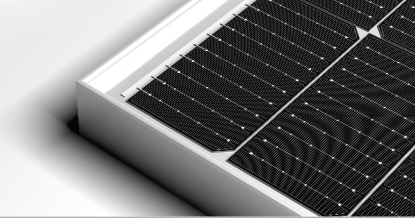
INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

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

BEST IN Grade Quality Class Results



TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module				
Module Type	**GS10-B120-TF**				
Capacity rating – Pmax(Wp)	435	440	445	450	455
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.10	20.33	20.56	20.79	21.03
Rated voltage - Vmp(V)	36.03	36.26	36.37	36.51	36.65
Rated current - Imp(A)	12.05	12.14	12.24	12.33	12.42
Open circuit voltage - Voc(V)	41.02	41.04	41.16	41.22	41.28
Short circuit current - Isc(A)	13.34	13.36	13.41	13.45	13.55

Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

BI-FACIAL : PMAX WITH REARSIDE POWER GAIN#

5% Gain	456	462	467	472	477
10% Gain	478	484	489	495	500
15% Gain	500	506	511	517	523
20% Gain	522	528	534	540	546
25% Gain	543	550	556	562	568
30 % Gain	565	572	578	585	591

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.

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

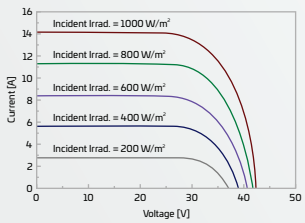
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.35% /°C

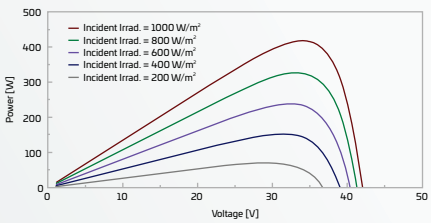
PACKAGING CONFIGURATION

Number of Modules per Pallet	30
No of pallet	20
No of module, 40ft HC container	600

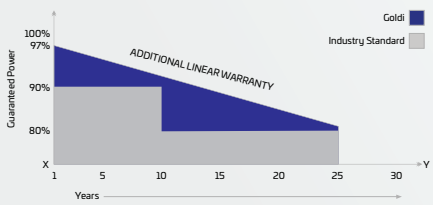
IV CURVE



PV CURVE



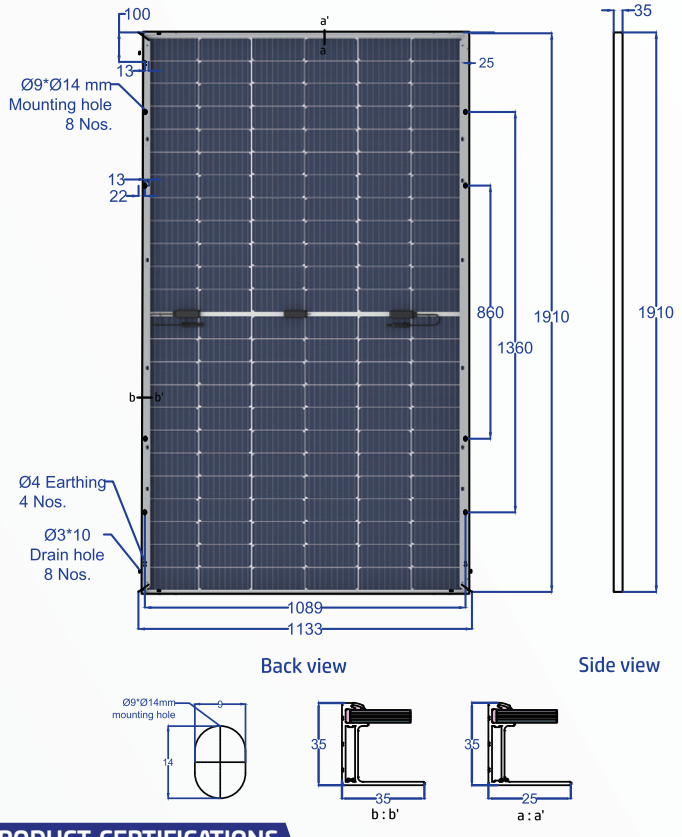
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	120 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate) & POE Polyolefin based Encapsulant, UV and Weather stable
Backside	UV protected reflective, Transparent backsheet
Frame	Silver Anodized Aluminium Alloy
Front Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1910 mm x (W) 1133 mm x (H) 35 mm
Weight	~25 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	20 A
Cable	Solar cable 400 mm length, 4 mm²
Connectors	MC4 compatible connectors
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

*We have applied for below 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, IEC 62759-1, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

Certificate Number 18976

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL | INSTITUTIONAL

TDS-GS10B120TF-V1.0

- For handling & installation instructions, refer to Goldi Solar'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 Solar's warranty document for terms and conditions
- Due to constant product modifications, Goldi Solar reserves the right to amend the above specifications without prior notice
- Images in the datasheet are for representation purpose only

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