10 Years of Making a Difference

GOLDI SOLAR

HELOC® PRO | GS10-B144-GF

(525 Wp - 560 Wp)

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

High Efficiency
Excellent module conversion efficiency of up to 21.70%

Low-light Performance
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

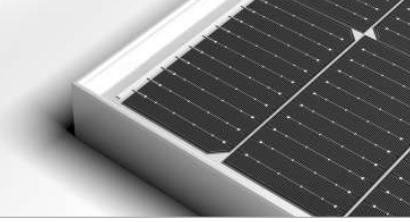
INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

30 YEARS — 30 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-B144-GF**							
Capacity rating – Pmax(Wp)	525	530	535	540	545	550	555	560
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.33	20.53	20.73	20.92	21.12	21.31	21.50	21.70
Rated voltage - Vmp(V)	40.68	41.88	41.04	41.27	41.45	41.63	41.81	42.00
Rated current - Imp(A)	12.91	12.96	13.03	13.10	13.16	13.22	13.28	13.34
Open circuit voltage - Voc(V)	49.05	49.21	49.39	49.56	49.73	49.90	50.07	50.24
Short circuit current - Isc(A)	13.42	13.49	13.56	13.63	13.70	13.77	13.84	13.91

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%.

Electrical Parameter at NOCT								
Capacity rating – Pmax(Wp)	388.64	392.35	396.05	399.75	403.45	407.15	410.85	414.55
Rated voltage - Vmp(V)	37.94	38.13	38.28	38.49	38.66	38.83	38.99	39.17
Rated current - Imp(A)	10.24	10.28	10.34	10.39	10.44	10.49	10.54	10.58
Open circuit voltage - Voc(V)	45.87	46.02	46.19	46.35	46.50	46.66	46.82	46.98
Short circuit current - Isc(A)	10.81	10.86	10.92	10.98	11.03	11.09	11.14	11.20

Irradiance 800 W/m2, ambient temperature 20°C,Module temperature 45°C, wind speed 1 m/sec

BI-FACIAL : PMAX WITH REARSIDE POWER GAIN#

5% Gain	551	557	562	567	572	578	583	588
10% Gain	578	583	589	594	600	605	611	616
15% Gain	604	610	615	621	627	633	638	644
20% Gain	630	636	642	648	654	660	666	672
25% Gain	656	663	669	675	681	688	694	700
30 % Gain	683	689	696	702	709	715	722	728

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
NOCT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

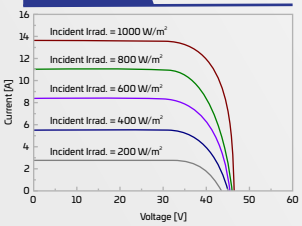
TEMPERATURE COEFFICIENTS (TC)

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

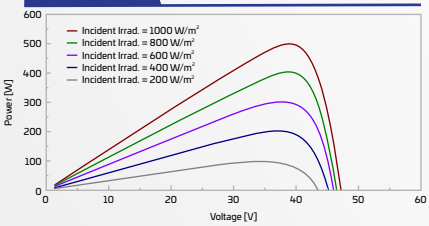
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	20
No of module, 40ft HC container	620

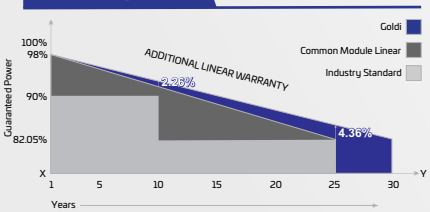
IV CURVE



PV CURVE



LINEAR GRAPH

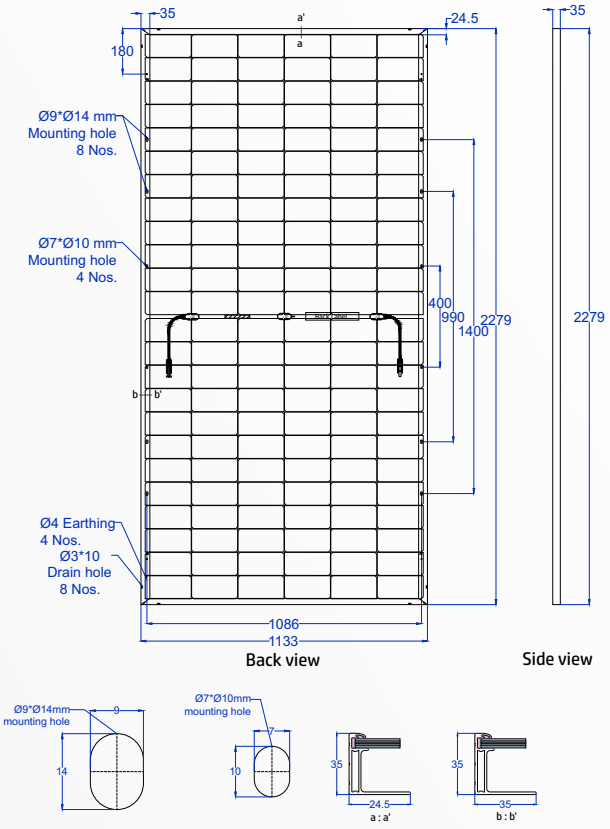


Power Degradation: <2% for First Year
<0.55% / Year in 2-25 Years

MECHANICAL SPECIFICATION

Solar cells	144 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	POE Polyolefin based Encapsulant, UV and Weather stable
Frame	Silver Anodized Aluminium Alloy
Solar Glass	2.0 mm, High Transmission, AR Coated HS Glass
Dimensions	(L) 2279 mm x (W) 1133 mm x (H) 35 mm
Weight	~32 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 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

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

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

TDS-GS10B144GF-V4.0

- ##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 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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