

HELOC<sup>®</sup> PRO

GS10-B144-GF  
(525 Wp - 550 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 21.30%



**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**

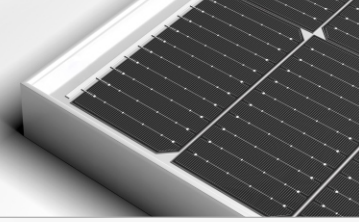


12 Years Warranty For  
Materials And Processing



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-B144-GF					
Capacity rating – Pmax(Wp)	525	530	535	540	545	550
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.33	20.53	20.72	20.91	21.11	21.30
Rated voltage - Vmp(V)	40.68	41.88	41.04	41.27	41.45	41.63
Rated current - Imp(A)	12.91	12.96	13.03	13.10	13.16	13.22
Open circuit voltage - Voc(V)	49.05	49.21	49.39	49.56	49.73	49.90
Short circuit current - Isc(A)	13.42	13.49	13.56	13.63	13.70	13.77

Under Standard Test Conditions (STC) of irradiance 1000 W/m<sup>2</sup>, 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)	389	392	396	400	403	407
Rated voltage - Vmp(V)	37.94	38.13	38.28	38.49	38.66	38.83
Rated current - Imp(A)	10.24	10.28	10.34	10.39	10.44	10.49
Open circuit voltage - Voc(V)	45.87	46.02	46.19	46.35	46.50	46.66
Short circuit current - Isc(A)	10.81	10.86	10.92	10.98	11.03	11.09

Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

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

Capacity rating – Pmax(Wp)	578	583	589	594	600	605
Rated voltage - Vmp(V)	40.68	41.88	41.04	41.27	41.45	41.63
Rated current - Imp(A)	14.20	14.25	14.33	14.41	14.47	14.54
Open circuit voltage - Voc(V)	49.05	49.21	49.39	49.56	49.73	49.90
Short circuit current - Isc(A)	14.76	14.83	14.91	14.99	15.07	15.14

# 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

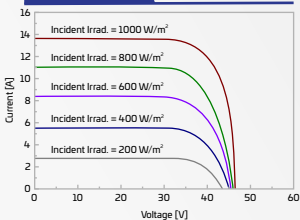
## TEMPERATURE COEFFICIENTS (TC)

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

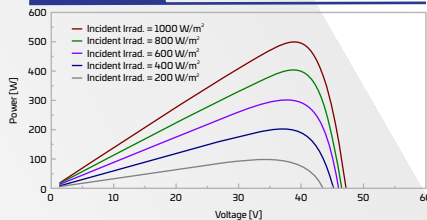
## PACKAGING CONFIGURATION##

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

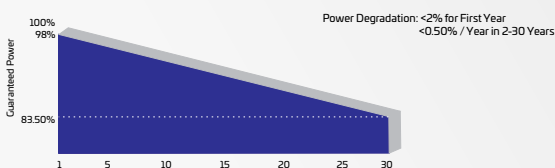
## IV CURVE



## PV CURVE



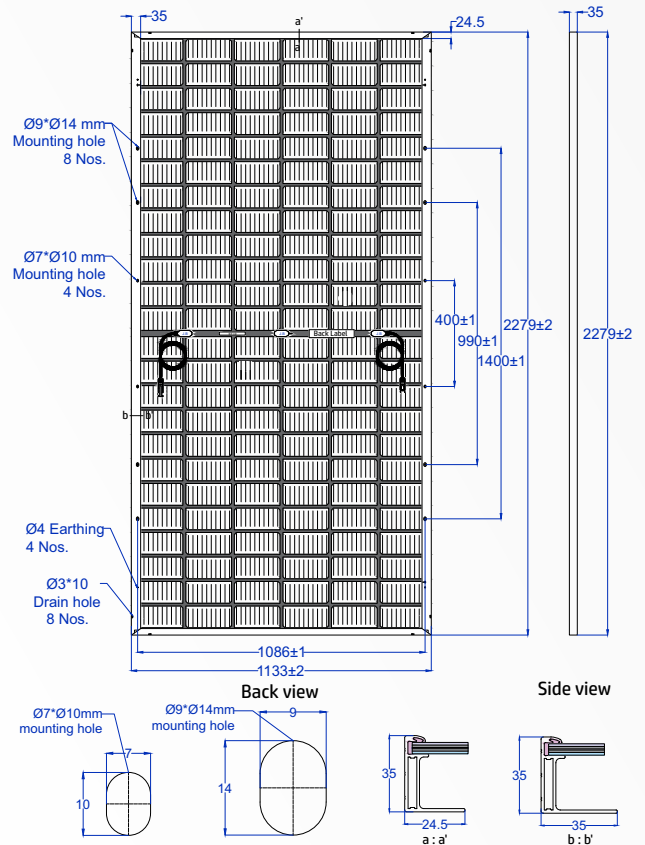
## LINEAR GRAPH



## MECHANICAL SPECIFICATION

Solar cells	144 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) 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	4 mm <sup>2</sup> , 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

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004, CEC, IEC 61701, IEC 62716, IEC 60068-2-68, UL 61730-1 & 2, IEC 62804, IEC 61853



## 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

1800 833 5511

info@goldisolar.com

goldisolar.com