



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



**High Efficiency**  
Excellent module conversion efficiency of up to 24.6%



**Better Weak Illumination Response**  
Higher power output even under low-light environments like on cloudy or foggy days



**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



### TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module						
Module Type	GS12R-I132-GF						
Capacity rating - Pmax(Wp)	635	640	645	650	655	660	665
Power Tolerance (%)	0-2						
Module efficiency (%)	23.5	23.7	23.9	24.1	24.2	24.4	24.6
Rated voltage - Vmp(V)	41.70	41.80	41.90	42.00	42.10	42.20	42.30
Rated current - Imp(A)	15.23	15.32	15.40	15.48	15.56	15.65	15.73
Open circuit voltage - Voc(V)	49.00	49.10	49.20	49.30	49.40	49.50	49.60
Short circuit current - Isc(A)	16.41	16.48	16.55	16.62	16.69	16.76	16.83

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 ±5%.

### Electrical Characteristics with 10% rear side power gain<sup>#</sup>

Capacity rating - Pmax(Wp)	698	704	709	715	720	726	731
Rated voltage - Vmp(V)	41.70	41.80	41.90	42.00	42.10	42.20	42.30
Rated current - Imp(A)	16.75	16.85	16.94	17.02	17.11	17.21	17.30
Open circuit voltage - Voc(V)	49.00	49.10	49.20	49.30	49.40	49.50	49.60
Short circuit current - Isc(A)	18.05	18.12	18.20	18.28	18.35	18.43	18.51

<sup>#</sup> 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: 75 ± 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

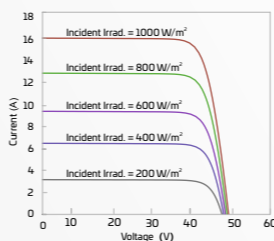
### TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.22% /°C
Temperature Coefficient (Isc)	0.05% /°C
Temperature Coefficient (Pmax)	-0.26% /°C

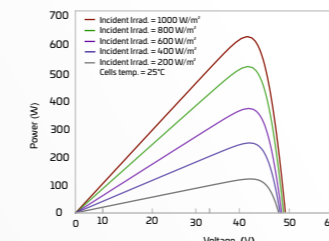
### PACKAGING CONFIGURATION<sup>##</sup>

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

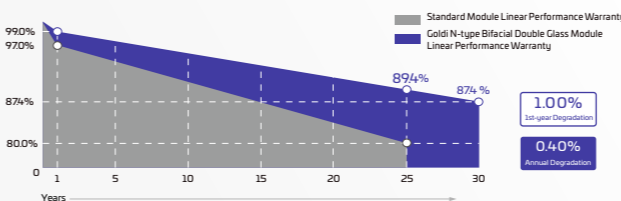
### IV CURVE



### PV CURVE



### LINEAR GRAPH



12 Years Product Material & Workmanship | 30 Years Linear Performance Warranty

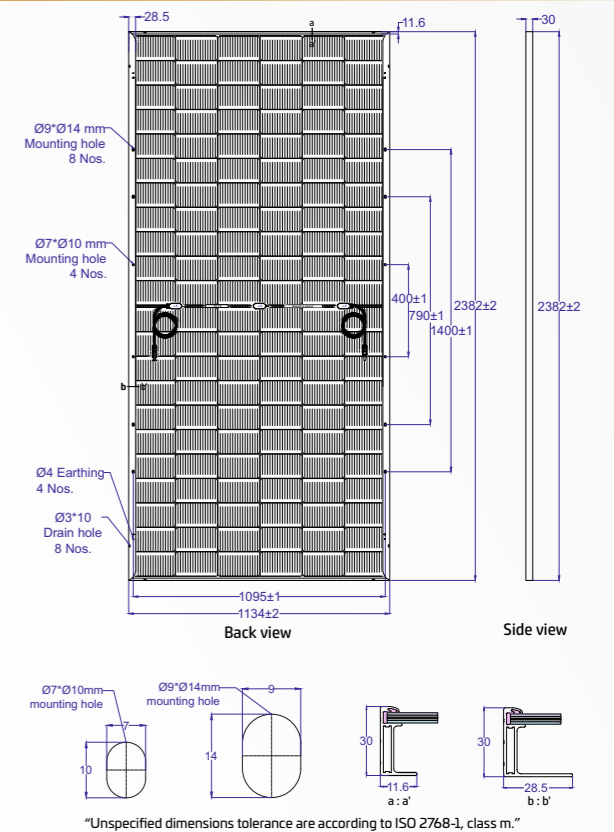
UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL | INSTITUTIONAL

- <sup>##</sup> 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
- <sup>\*</sup> All features, specifications, and availability of products described herein are subject to change without prior notice.

### MECHANICAL SPECIFICATION

Solar cells	132 pcs, N-Type IBC(210mmx182.2mm)
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) 2382 mm x (W) 1134 mm x (H) 30 mm <sup>***</sup>
Weight	~32.7 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	30 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

CE

### MANAGEMENT SYSTEM CERTIFICATIONS



### INDUSTRY LEADING PROTECTION



**12 Years Warranty For Materials And Processing**



**30 Years Warranty For Linear Power Output**