

# GOLDI\_60GN - Dual Glass Monocrystalline Transparent EVA

## Key Features

- Excellent module conversion efficiency of up to 18.54%.
- Up to +3% positive power output guaranteed.
- Reducing equipment loss increases the power generation in overall system.
- Loss minimization due to excellent temperature co-efficient.
- Frameless design, less dust or snow piling up, reduces O&M cost.
- Use of split junction box reduces panel temperature thereby increasing panel reliability.
- Using high transparency EVA at the back of the cell allows more sunlight to pass through.
- Transparent EVA also creates more aesthetically pleasing panels.
- Better performance even at low irradiance condition.
- Higher specific yield.

## Quality & Reliability

- Manufactured in an ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 certified facility.
- Manufactured using high grade raw materials from reputed international suppliers adopting a stringent quality criteria.
- IP68 rated junction box for long-term weather endurance.
- 25 years output warranty.
- Certified for hail resistance.
- PID resistant and free of snail trails

## Technical Data for GOLDI\_60GN - Dual Glass Monocrystalline Transparent EVA

### Electrical Parameter at STC

Module Type	GOLDI060BIPV24					
Capacity rating - Pmax(Wp)	280	285	290	295	300	305
Power Tolerance (%)	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3
Module efficiency (%)	17.02	17.33	17.63	17.94	18.24	18.54
Rated voltage - Vmp(V)	31.6	31.85	32.1	32.35	32.65	32.87
Rated current - Imp(A)	8.88	8.96	9.04	9.12	9.19	9.28
Open circuit voltage - Voc(V)	39.12	39.35	39.65	39.85	40.1	40.4
Short circuit current - Isc(A)	9.18	9.27	9.36	9.45	9.53	9.62

Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

### Electrical Parameter at NOCT

Capacity rating - Pmax(Wp)	208.53	211.95	215.52	219.12	222.85	226.55
Rated voltage - Vmp(V)	29.26	29.54	29.78	30.01	30.2	30.49
Rated current - Imp(A)	7.13	7.17	7.24	7.30	97.36	7.43
Open circuit voltage - Voc	36.56	36.67	36.95	37.14	37.37	37.65
Short circuit current - Isc(A)	7.40	7.51	7.58	7.65	7.72	7.79

NOCT irradiance of 800 W/m<sup>2</sup>, ambient temperature of 20°C, Wind speed 1m/sec

### Guarantees and certifications

Product warranty**	10 years
Performance guarantee**	Limited warranty for power output :- 90% for 10 years, and 80% for 25 years

### Mechanical specification

Solar cells	60 pcs PERC Monocrystalline Silicon, 5BB/4BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
Backside	2.5mm, High Transmission, AR Coated Tempered Glass
Frame	No Frame
Front glass	2.5mm (Float semi tempered glass)
Dimensions	(L) 1658mm x (W) 992 mm x (H) 6mm
Weight	23kg
J-box	IP 68 certified, 3 diodes junction box
Cable	Solar cable 400 mm length, 4 mm <sup>2</sup>
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).

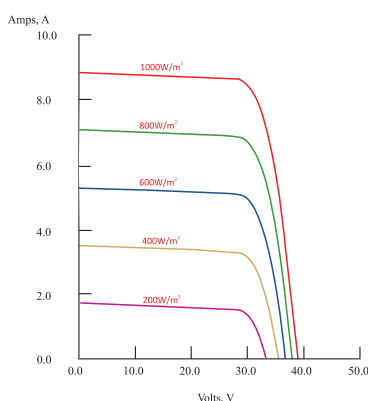
### Temperature Coefficients (TC)

Temperature Coefficient (Voc)	-0.29% /°C
Temperature Coefficient (Isc)	0.05% /°C
Temperature Coefficient (Pmax)	-0.38% /°C

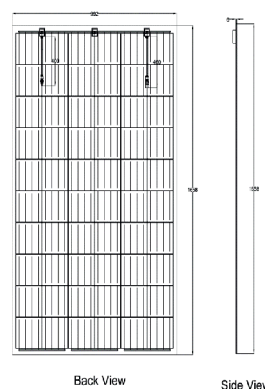
### Permissible Operating Conditions

Temperature range	-40°C to + 85°C
Maximum system voltage	1500/1000 VDC
NOCT	45 ± 2°C
Hail resistance	Maximum diameter of 25 mm with velocity 23 m/s

## IV Curves



## Drawing measurement in mm



Container	20' GP	40' HC
Pallets/ container	12	26
Modules / Container	432	936

- For handling & installation instructions refer Goldi Solar Installation Manual
- Dispose-off the product as E-Waste after 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.