

# GOLDI\_60GN1 PERC Monocrystalline Module

## Key Features

- Higher module conversion efficiency (up to 19.40%) benefit from Passivated Emitter Rear Contact (PERC) technology.
- 10% higher power output compared to industry average modules.
- 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.
- Excellent low light and longer wavelength response.
- BOS cost reduction for 1500 VDC System by connecting more modules in a string.
- 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.
- PID resistant (IEC 62804).
- IP67/IP68 rated junction box for long-term weather endurance.
- 25 years output warranty.
- Certified for hail resistance.

## Technical Data for GOLDI\_60GN1 - PERC Monocrystalline Module

### Electrical Parameter at STC

Module Type	GOLDI060FWpPRC24			
Capacity rating - Pmax(Wp)	300	305	310	315
Power Tolerance (%)	0 - 3	0 - 3	0 - 3	0 - 3
Module efficiency (%)	18.48	18.79	19.09	19.40
Rated voltage - Vmp(V)	32.65	32.87	33.05	33.35
Rated current - Imp(A)	9.19	9.28	9.38	9.45
Open circuit voltage - Voc(V)	40.10	40.40	40.60	40.85
Short circuit current - Isc(A)	9.53	9.62	9.71	9.82

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)	222.85	226.55	230.25	234.07
Rated voltage - Vmp(V)	30.29	30.49	30.66	30.94
Rated current - Imp(A)	7.36	7.43	7.51	7.57
Open circuit voltage - Voc	37.37	37.65	37.84	38.07
Short circuit current - Isc(A)	7.72	7.79	7.86	7.95

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
Product Certified	IEC 61215, IEC 61730, CE, BIS

### Mechanical specification

Solar cells	60 pcs PERC Monocrystalline Silicon, 5BB/4BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
Backside	UV protected reflective backsheets
Frame	Silver Anodized Aluminium Alloy (screwless)
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1640 mm x (W) 990mm x (H) 35mm
Weight	18.3 kg
J-box	IP67/IP68 rated junction box for long-term weather endurance.
Cable	Solar cable 400mm to 1200 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).

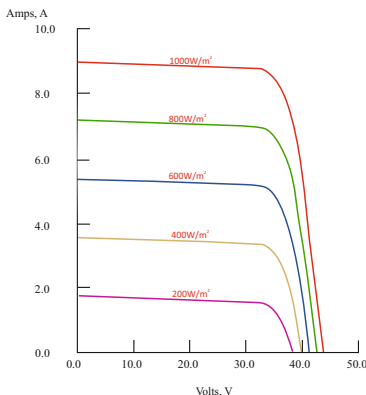
### Temperature Coefficients (TC)

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

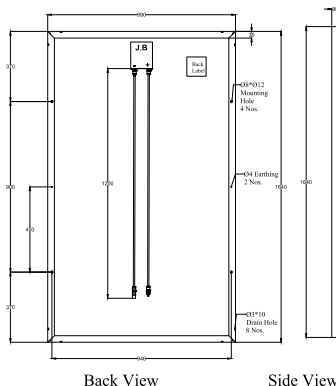
### Permissible Operating Conditions

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	10	28
Modules / Container	300	840

- 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.