

# GOLDI\_60GN1

## Monocrystalline Module(PERC)

### Key Features

- Excellent module conversion efficiency of up to 19.40%.
- 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.
- 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.
- Ammonia corrosion resistant (IEC 62716).
- IP67/IP68 rated junction box for long-term weather endurance.
- 25 years output warranty.
- Certified for hail resistance.
- Certified for IEC & BIS.

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

#### Electrical Parameter at STC

Module Type	GOLDI060FWpPRC24					
Capacity rating – Pmax(Wp)	290	295	300	305	310	315
Power Tolerance (%)	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3
Module efficiency (%)	17.86	18.17	18.48	18.79	19.09	19.40
Rated voltage - Vmp(V)	32.10	32.35	32.65	32.87	33.05	33.35
Rated current - Imp(A)	9.04	9.12	9.19	9.28	9.38	9.45
Open circuit voltage - Voc(V)	39.65	39.85	40.10	40.40	40.60	40.85
Short circuit current - Isc(A)	9.36	9.45	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)	215.52	219.12	222.85	226.55	230.25	234.07
Rated voltage - Vmp(V)	29.78	30.01	30.29	30.49	30.66	30.94
Rated current - Imp(A)	7.24	7.30	7.36	7.43	7.51	7.57
Open circuit voltage - Voc	36.95	37.14	37.37	37.65	37.84	38.07
Short circuit current - Isc(A)	7.58	7.65	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, IEC 62716, BIS, CE (In-progress)

#### Mechanical Specification

Solar cells	60 pcs monocrystalline Silicon(PERC), 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) 1640mm x (W) 990 mm x (H) 35mm
Weight	18.3kg
J-box	IP 67/IP68 certified 4-rail, 3 diodes junction box
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).

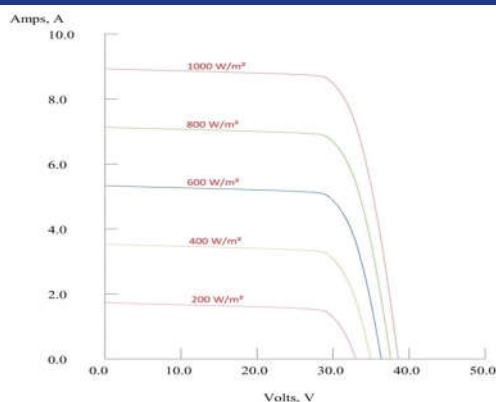
#### Temperature Coefficients (TC)

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

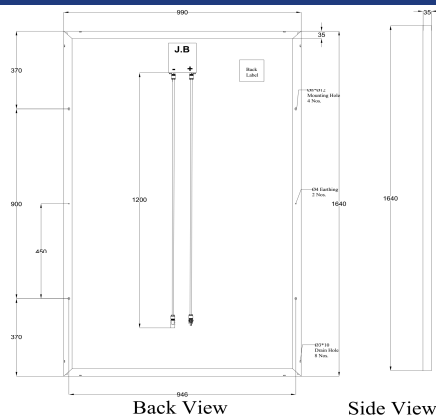
#### Permissible Operating Conditions

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

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