

GOLDI_72GN1

Monocrystalline Module(PERC)



Key Features

- Excellent module conversion efficiency of up to 19.12%.
- 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_72GN1 - Monocrystalline Module(PERC)

Electrical Parameter at STC

Module Type	GOLDI072FWpPRC24						
Capacity rating – Pmax(Wp)	340	345	350	355	360	365	370
Power Tolerance (%)	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3
Module efficiency (%)	17.57	17.83	18.08	18.34	18.60	18.86	19.12
Rated voltage - Vmp(V)	37.90	38.10	38.40	38.60	38.80	39.10	39.30
Rated current - Imp(A)	8.98	9.06	9.12	9.20	9.28	9.34	9.42
Open circuit voltage - Voc(V)	46.80	47.10	47.30	47.50	47.70	47.90	48.10
Short circuit current - Isc(A)	9.32	9.40	9.48	9.56	9.64	9.72	9.78

Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Parameter at NOCT

Capacity rating - Pmax(Wp)	252.78	256.37	260.10	263.75	267.42	271.23	274.96
Rated voltage - Vmp(V)	35.16	35.34	35.62	35.81	35.99	36.27	36.46
Rated current - Imp(A)	7.19	7.25	7.30	7.37	7.43	7.48	7.54
Open circuit voltage - Voc	43.62	43.90	44.08	44.27	44.45	44.64	44.83
Short circuit current - Isc(A)	7.55	7.61	7.68	7.74	7.81	7.87	7.92

NOCT irradiance of 800 W/m², 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	72 pcs monocrystalline Silicon(PERC), 5BB/4BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
Backside	UV protected reflective backsheet
Frame	Silver Anodized Aluminium Alloy (screwless)
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1955 mm x (W) 990 mm x (H) 35mm
Weight	21.5 kg
J-box	IP 67/IP68 certified 4-rail, 3 diodes junction box
Cable	Solar cable 400mm to 1200 mm length, 4 mm ²
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).

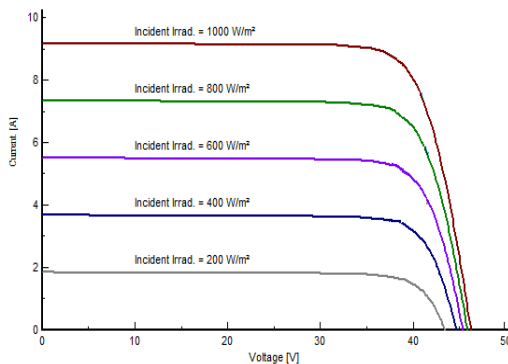
Temperature Coefficients (TC)

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

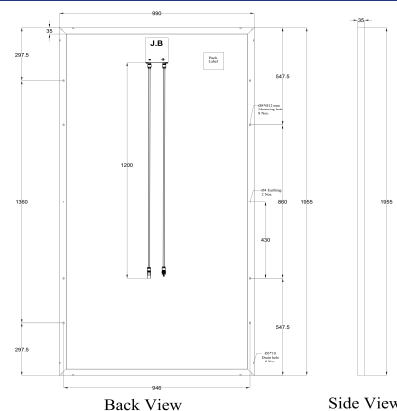
Permissible Operating Conditions

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	24
Modules/ Container	300	720

COSTA POWER INDUSTRIES PVT. LTD.

209, 2nd Floor, Infinity Business Park, Behind Pendharkar College,
MIDC Phase – 1, Dombivli(E), Thane – 421023.
Phone No. - 9820710392 / 9372217661.
Email - sales@upsbatteriesindia.com / sunil@upsbatteriesindia.com.