

GOLDI_72GN

Polycrystalline Module

Key Features

- Excellent module conversion efficiency of up to 17.57%.
- 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.
- PID resistant (IEC 62804).
- Salt mist and ammonia corrosion resistant (IEC 61701 & 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_72GN - Polycrystalline Module

Electrical Parameter at STC

| Module Type | GOLDI072FWpPY24 | | | | | |
|--------------------------------|-----------------|-------|-------|-------|-------|-------|
| Capacity rating – Pmax(Wp) | 315 | 320 | 325 | 330 | 335 | 340 |
| Power Tolerance (%) | 0 - 3 | 0 - 3 | 0 - 3 | 0 - 3 | 0 - 3 | 0 - 3 |
| Module efficiency (%) | 16.28 | 16.53 | 16.79 | 17.05 | 17.31 | 17.57 |
| Rated voltage - Vmp(V) | 36.70 | 36.90 | 37.20 | 37.40 | 37.70 | 37.90 |
| Rated current - Imp(A) | 8.59 | 8.68 | 8.75 | 8.83 | 8.9 | 8.98 |
| Open circuit voltage - Voc(V) | 45.50 | 45.70 | 45.90 | 46.20 | 46.50 | 46.80 |
| Short circuit current - Isc(A) | 8.98 | 9.05 | 9.12 | 9.19 | 9.26 | 9.32 |

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) | 234.27 | 238.01 | 241.89 | 245.41 | 249.34 | 252.91 |
| Rated voltage - Vmp(V) | 33.98 | 34.17 | 34.44 | 34.63 | 34.91 | 35.09 |
| Rated current - Imp(A) | 6.89 | 6.97 | 7.02 | 7.09 | 7.14 | 7.21 |
| Open circuit voltage - Voc | 42.52 | 42.71 | 42.90 | 43.18 | 43.46 | 43.74 |
| Short circuit current - Isc(A) | 7.24 | 7.30 | 7.35 | 7.41 | 7.47 | 7.52 |

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 61701, IEC 62716, IEC 62804, CE, BIS |

Mechanical Specification

| | |
|-------------------|---|
| Solar cells | 72 pcs Polycrystalline Silicon, 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 mm² |
| 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). |

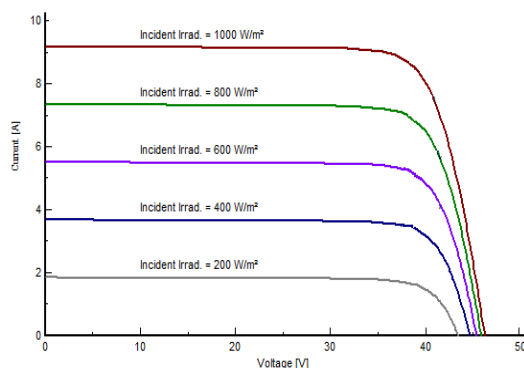
Temperature Coefficients (TC)

| | |
|--------------------------------|------------|
| Temperature Coefficient (Voc) | -0.30% /°C |
| Temperature Coefficient (Isc) | 0.05% /°C |
| Temperature Coefficient (Pmax) | -0.38% /°C |

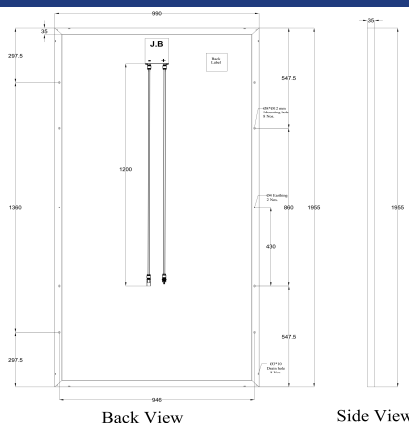
Permissible Operating Conditions

| | |
|------------------------|--|
| 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.