

GOLDI DUO APEX_120GN Polycrystalline Module

Key Features

- Excellent module conversion efficiency of up to 16.89%.
- Up to +3% positive power output guaranteed.
- About 4wp extra power gain per modules .
- Reducing equipment loss increases the power generation in overall system.
- High fill factor & four times lower loss in complete module.
- Split junction boxes reduce panel temperature resulting increased reliability.
- Improved performance in shade condition.
- 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 resistant (IEC 61701).
- 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 DUO APEX_120GN - Polycrystalline Module

Electrical Parameter at STC

Module Type	GOLDI120CWpPY24				
Capacity rating – Pmax(Wp)	260	265	270	275	280
Power Tolerance (%)	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3
Module efficiency (%)	15.68	15.98	16.28	16.58	16.89
Rated voltage - Vmp(V)	30.40	30.70	31.00	31.30	31.60
Rated current - Imp(A)	8.57	8.64	8.72	8.8	8.88
Open circuit voltage - Voc(V)	38.12	38.32	38.52	38.82	39.12
Short circuit current - Isc(A)	8.9	8.97	9.03	9.1	9.18

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)	193.60	197.11	200.88	204.68	208.53
Rated voltage - Vmp(V)	28.15	28.43	28.70	28.98	29.26
Rated current - Imp(A)	6.88	6.93	7.00	7.06	7.13
Open circuit voltage - Voc	35.63	35.81	36.00	36.28	36.56
Short circuit current -Isc(A)	7.18	7.23	7.28	7.34	7.40

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, CE, BIS

Mechanical Specification

Solar cells	120 pcs Polycrystalline Silicon, 5BB/4BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
Backside	UV protected reflective backsheets
Frame	Silver Anodized Aluminium Alloy
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1675mm x (W) 990 mm x (H) 35mm
Weight	18.5kg
J-box	IP 68 certified, 3 diodes junction box
Cable	Solar cable 400 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).

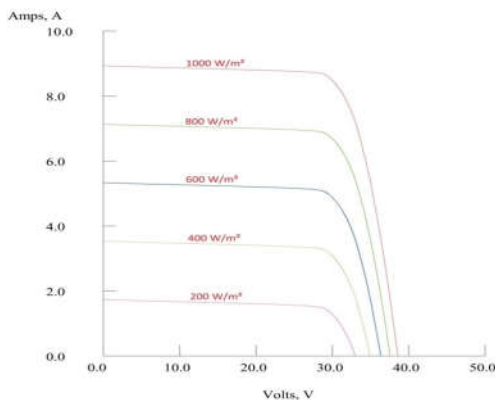
Temperature Coefficients (TC)

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

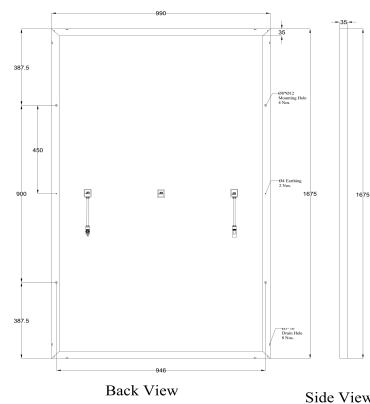
Permissible Operating Conditions

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	12	26
Modules/ Container	360	780

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