



HELOC[®] PLUS

G 12 Series

(680 - 710 Wp)

132-Cell Heterojunction Bifacial Half Cut Cell Module



High Saving

Lower LCOE, reduced BOS cost, shorter payback time



PID Resistance

Excellent Anti-PID Performance guarantee limited power degradation for mass production



High Efficiency

Excellent module conversion efficiency of up to 22.85%



IP68 Junction Box

High waterproof level



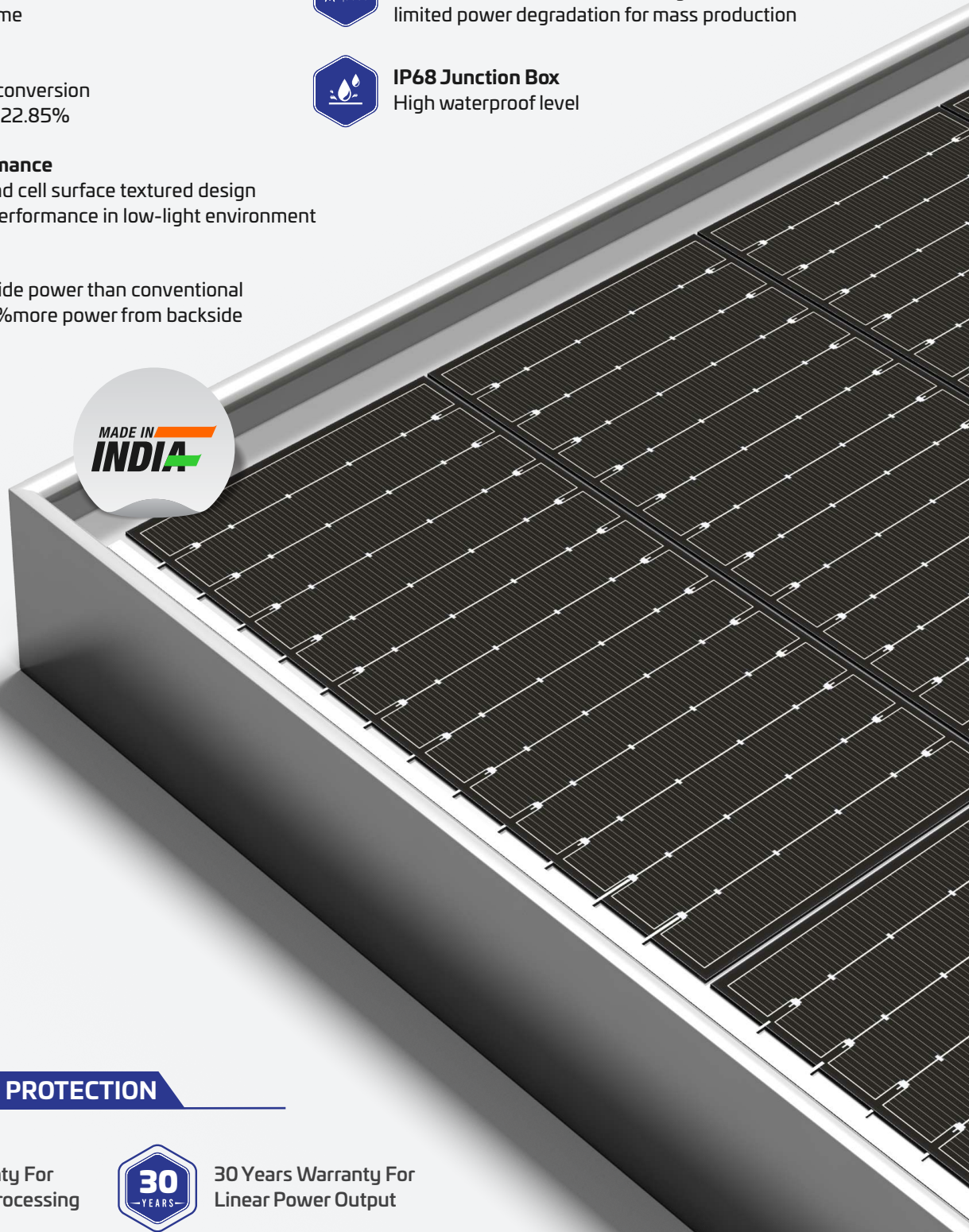
Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment



High Power

30% higher front side power than conventional modules, Up to 25% more power from backside



INDUSTRY LEADING PROTECTION



12 Years Warranty For Materials And Processing



30 Years Warranty For Linear Power Output

BEST IN Grade Quality Class Results



TECHNICAL DATA

Electrical Parameter at STC	Heterojunction Bifacial Module						
Module Type	G12 Series (680-710 Wp)						
Capacity rating – Pmax(Wp)	680	685	690	695	700	705	710
Power Tolerance (W)	0- +5						
Module Efficiency (%)	21.89	22.05	22.21	22.37	22.53	22.70	22.85
Rated voltage - Vmp(V)	42.44	42.63	42.82	43.02	43.21	43.40	43.53
Rated current - Imp(A)	16.05	16.09	16.14	16.18	16.23	16.27	16.34
Open circuit voltage - Voc(V)	48.91	48.97	49.04	49.10	49.17	49.24	49.30
Short circuit current - Isc(A)	16.98	17.06	17.14	17.22	17.31	17.39	17.47

Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

Electrical Parameter at NMOT							
Capacity rating – Pmax(Wp)	569	574	578	583	588	592	597
Rated voltage - Vmp(V)	40.24	40.43	40.62	40.82	41.01	41.20	41.33
Rated current - Imp(A)	14.15	14.19	14.24	14.28	14.33	14.37	14.44
Open circuit voltage - Voc(V)	46.31	46.37	46.44	46.50	46.57	46.64	46.70
Short circuit current - Isc(A)	14.98	15.06	15.14	15.22	15.31	15.39	15.47

Irradiances 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

BSTC**							
Capacity rating – Pmax(Wp)	753	759	765	770	776	781	787
Rated voltage - Vmp(V)	42.44	42.63	42.82	43.02	43.21	43.40	43.53
Rated current - Imp(A)	17.78	17.83	17.88	17.93	17.98	18.03	18.10
Open circuit voltage - Voc(V)	48.91	48.97	49.04	49.10	49.17	49.24	49.30
Short circuit current - Isc(A)	18.81	18.90	18.99	19.08	19.18	19.27	19.36

BSTC** - Front side irradiances 1000 W/m², backs side reflection irradiances 135 W/m² spectrum AM 1.5 & cell temperature of 25°C | Bi-Faciality Factor : 80 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
Maximum Series fuse rating	30A

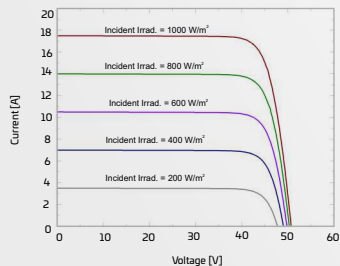
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.234% /°C
Temperature Coefficient (Isc)	0.033% /°C
Temperature Coefficient (Pmax)	-0.259% /°C
Nominal module Operating Temperature (NMOT)	43±3/°C

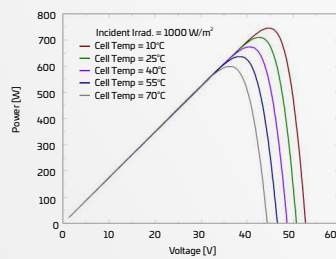
PACKING CONFIGURATIONS**

Pallets Per Container	18
Modules Per Pallet	31
No Of Module, 40ft HC Container	558

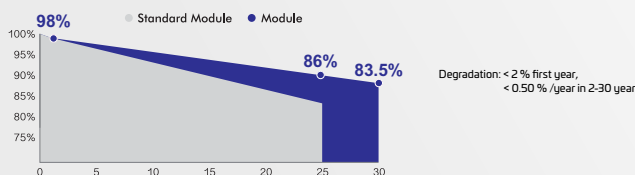
IV CURVE



PV CURVE



LINEAR GRAPH

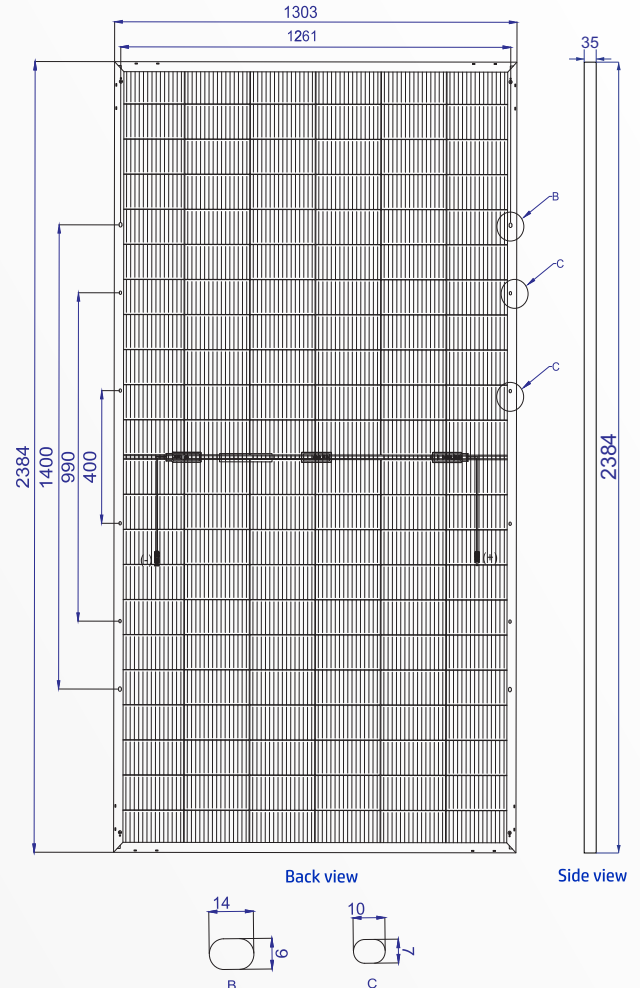


MECHANICAL SPECIFICATION

Cell Type	12 busbar N-type bifacial HJT half cut cell (210mm)
Cell Connection	132 pcs (66x2)
Module Dimension	2384X 1303X35 mm
Weight	38.7 kg
Junction Box	IP 68 certified, 3 diodes, Split junction box
Output Cable	Solar cable 400 mm length, 4 mm ²
Connectors Type	MC4 Compatible
Frame	Silver Anodised Aluminum Alloy
Encapsulant	POE Polyolefin based Encapsulant, UV and Weather stable
Front Load	5400 Pa
Rear Load	2400 Pa
Solar Glass	2.0 mm, High transmission, AR coated HS glass
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)

Engineering Drawings

Unit: mm



MANAGEMENT SYSTEM CERTIFICATIONS



UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL | INSTITUTIONAL

- **Quantity of modules/container may get changed without prior notice. Confirm with our sales representative before placing order.
- For handling & installation instructions, refer to Goldi installation manual available on the company website
- Before placing an order, confirm your requirements with our sales representative
- The electrical data provided here is for reference purposes only
- Dispose of a product as e-waste after the end of its working life
- Refer to Goldi warranty document for terms and conditions
- Due to constant product modifications, Goldi reserves the right to amend the above specifications without prior notice
- Images in the datasheet are for representation purpose only

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