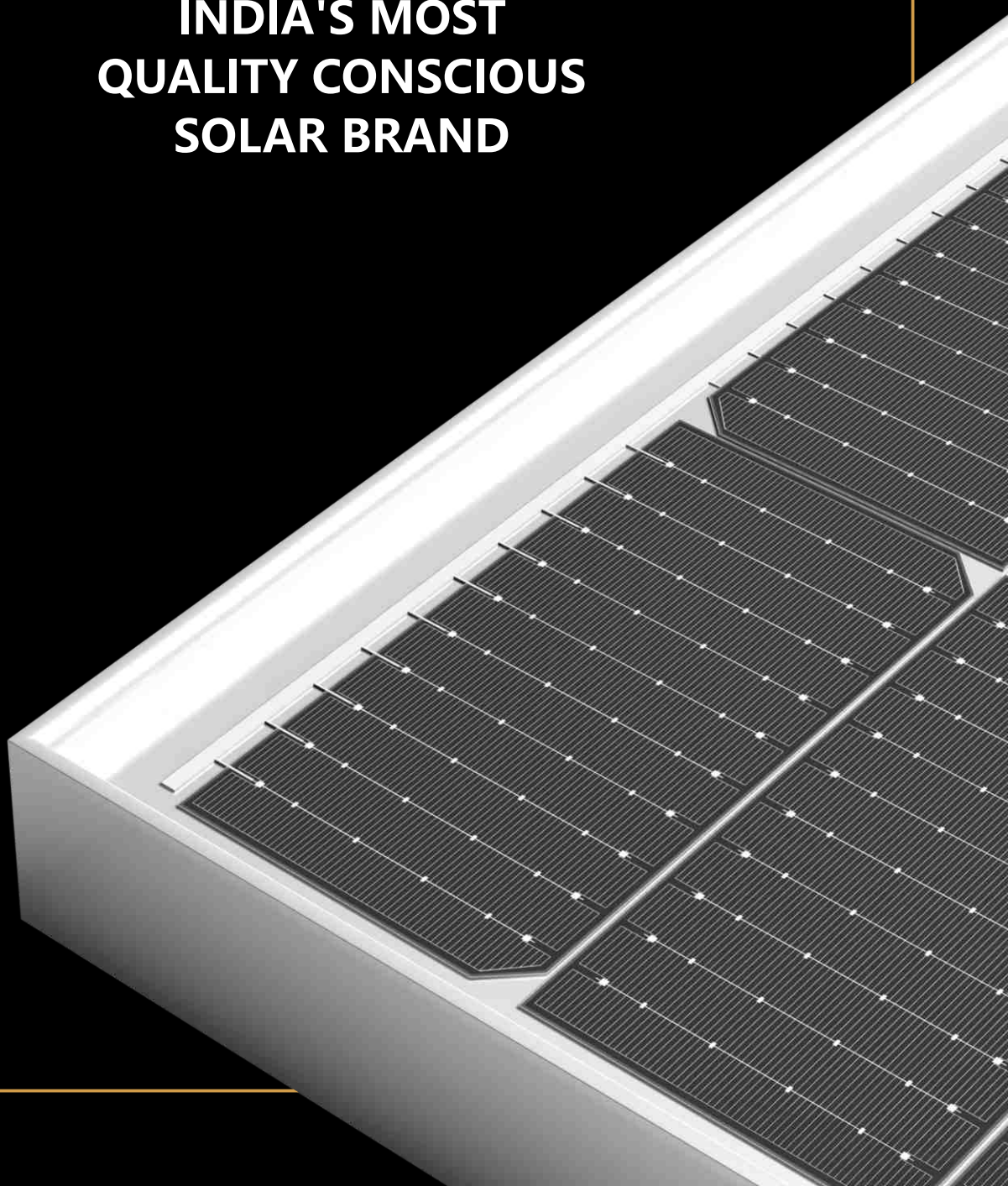
GOLDI
SOLAR

INDIA'S MOST QUALITY CONSCIOUS SOLAR BRAND



About Goldi Solar

3 GW
Capacity

13 Years Of Rich
Industry Experience

Shipping To 20+
Countries

2000+
Workforce

Solar Park
100 MW *by FY 2024-25

Being Versatile In Its Own Way, Our Modules Can Be Used For

- Utilities
- Industries
- Residential
- Institutes
- Agriculture
- Hospitals

Our Vision

Transforming Tomorrow's Energy

Mission

Providing Clean Energy Solutions To
The World And Conserving The Planet

Values

When The Nature & World Wanted Help
We Came To The
Respect
Ethics
Service
Commitment
Quality

Why Choose Goldi?

3Q — QUALITY PROMISE · PEOPLE · PRODUCT · BRAND

Goldi solar panels are premium quality and designed to last for decades.
Our facility has stringent quality check procedures, paired with best-in-class raw materials
and a highly skilled workforce. The panels are also certified to function
at optimal performance for various geographic and adverse climatic conditions.

Globally Practiced Quality Standards & Certifications

IEC 61215 · IEC 61730 PART 1&2 · IEC 62804 · IEC 62716 · IEC 61701 · ISO 9001 · ISO 14001 · ISO 45001

- IEC 61701 (Salt Mist Test)
- IEC 60068 - 2 - 68 (Sand & Dust Test)
- IEC 60904 - 1 (Calibration)
- IEC 62759 - 1 (Transportation Test)
- IS 14286, IS/IEC 61730-1 & 2 (Design / Type & Safety)
- IEC 62804 (PID)
- IEC 62716 (Ammonia Test)
- IEC 61853 - 1 & 2 (Performance Testing and Energy Rating)
- IEC CB SCHEME 61215, 61215, 61730 - 1 & 2 (2016 & 2021) (Design & Safety Test)
- UL 61730 - 1 & 2 (Standard for Safety)

cULus LISTED · IEC · IECEE · CE · CEC STATE OF CALIFORNIA · ALMM · DNV BANKABLE BRAND

dewa · CERTIFICADO RETIE · kiwa PVEL

Goldi's Growth Is Unstoppable

LAUNCH OF
VAMA INVERTERS
2023-24

ADDITIONAL 1.2 GW MODULE
AT NAVSARI FACTORY
2023-24

PIPODARA FACTORY EXPANSION
WITH MBB TECHNOLOGY
2022-23

ADDITIONAL 1.2 GW MODULE
AT NAVSARI FACTORY
2022-23

NAVSARI FACTORY
EXPANSION 1.2 GW MODULE
2021-22

NEW FACTORY AT NAVSARI
WITH MBB TECHNOLOGY
2020-21

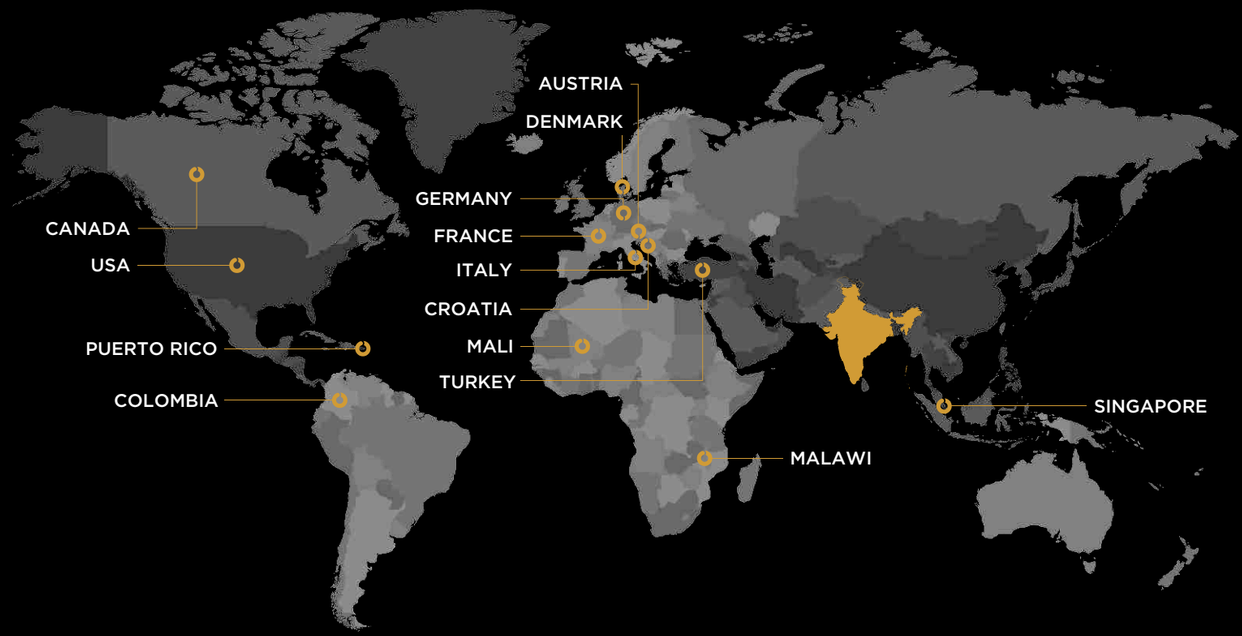
2500+ EPC
CUSTOMERS
2018-19

EPC BUSINESS
& EXPANSION TO
500 MW
2016-17

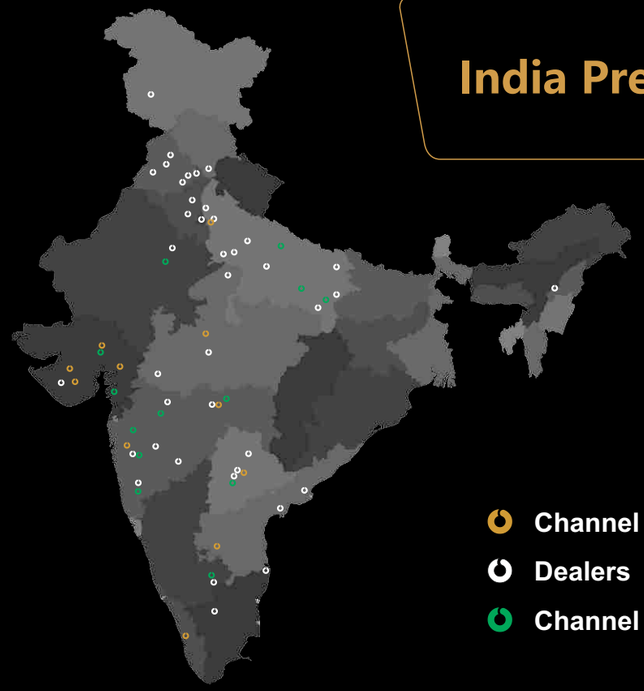
EXPANSION
OF PIPODARA
FACTORY
TO 100 MW
2013-14

PIPODARA
FACTORY
SETUP WITH
10 MW
2011-12

Global Presence



India Presence



- Channel Partners
- Dealers
- Channel Partners / Dealers

Manufacturing Units

Navsari, 4 GW

*by 2024

Pipodra, 500 MW

Goldi's Glory

Akshardham (Delhi)

KGiSL Group (Coimbtore, Tamilnadu)

Sardardham (Ahmedabad, Gujarat)

KSV Cotton Mills (Dindigul, Tamilnadu)

Varmora Group (Morbi, Gujarat)

KKP Cotton Mills (Namakkal, Tamilnadu)

Renew Power (Maharashtra)

Sheetal Cool Products (Amreli, Gujarat)

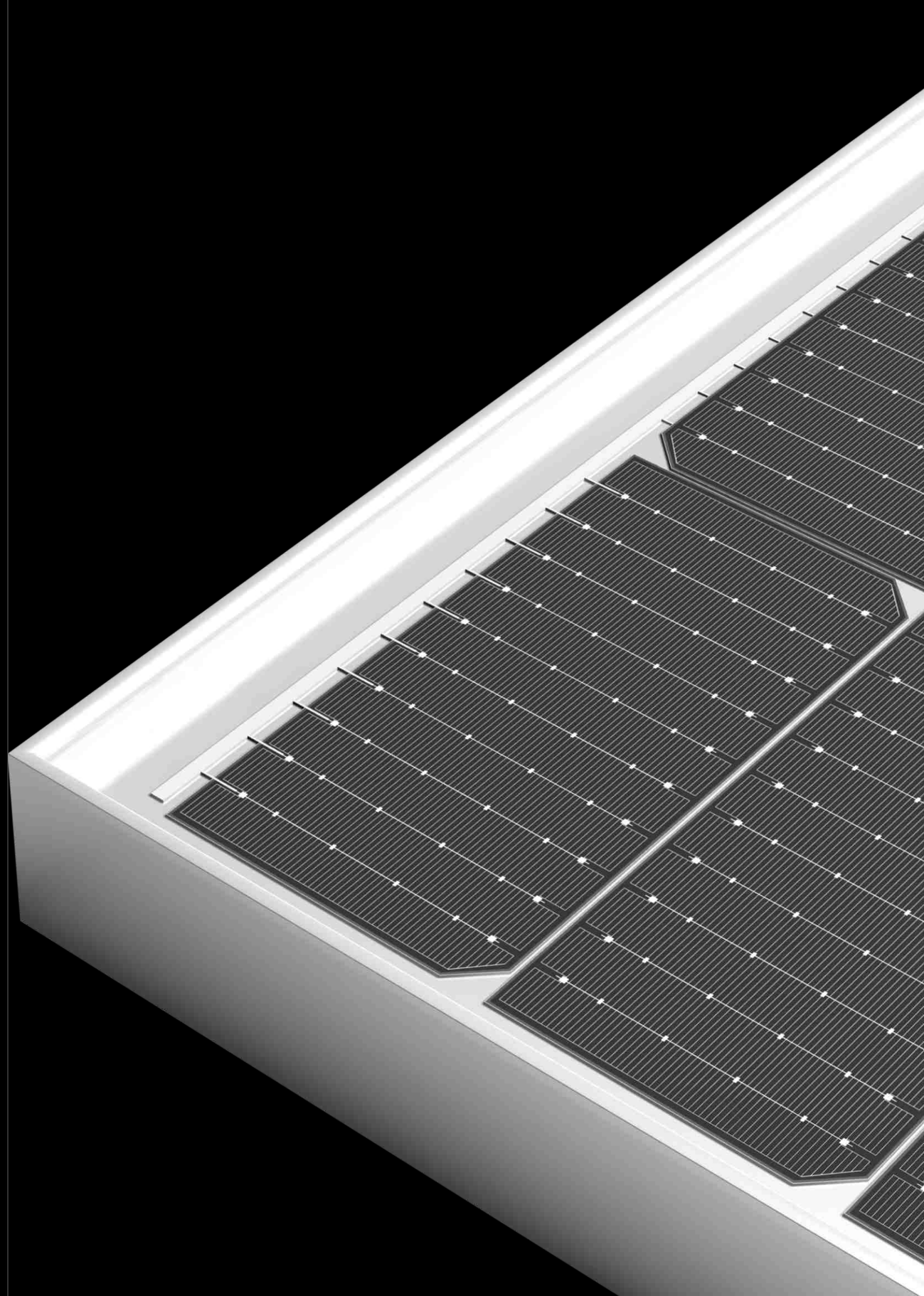
HELOÇ® PRO

HIGH EFFICIENCY
LOW ON CARBON

Heloc® Pro module series features mono-facial and bi-facial modules with M10 wafer size.

Helo® Pro stands for High Efficiency Low on Carbon. The name is our ode to a solar-powered, energy-efficient, low-carbon economy.

HIGH POWER | HIGH EFFICIENCY | HIGH SAVINGS



GOLDI SOLAR

HELOC® PRO

GS10-M144-WF (525 Wp - 555 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.49%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module						
Module Type	GS10-M144-WF						
Capacity rating – Pmax(Wp)	525	530	535	540	545	550	555[#]
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.33	20.53	20.72	20.91	21.11	21.30	21.49
Rated voltage - Vmp(V)	41.28	41.51	41.75	41.97	42.20	42.42	42.66
Rated current - Imp(A)	12.70	12.75	12.80	12.85	12.90	12.94	13.01
Open circuit voltage - Voc(V)	50.02	50.21	50.40	50.61	50.80	50.90	51.00
Short circuit current - Isc(A)	13.20	13.24	13.28	13.33	13.36	13.39	13.60

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

Electrical Parameter at NMOT							
Capacity rating – Pmax(Wp)	389	392	396	400	404	407	411
Rated voltage - Vmp(V)	38.50	38.71	38.94	39.14	39.36	39.56	39.79
Rated current - Imp(A)	10.08	10.12	10.16	10.20	10.24	10.27	10.32
Open circuit voltage - Voc(V)	46.78	46.96	47.13	47.33	47.51	47.60	47.69
Short circuit current - Isc(A)	10.63	10.66	10.69	10.73	10.76	10.78	10.95

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

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

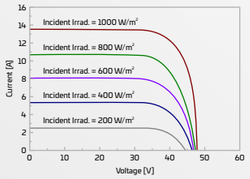
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.34% /°C

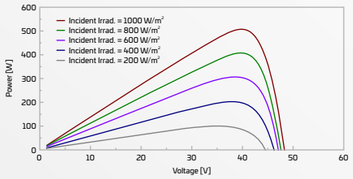
PACKAGING CONFIGURATION[##]

Number of Modules per Pallet	31
No of pallet	20
No of module, 40ft HC container	620

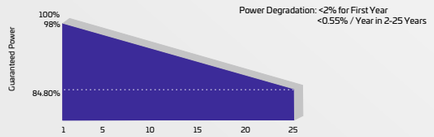
IV CURVE



PV CURVE



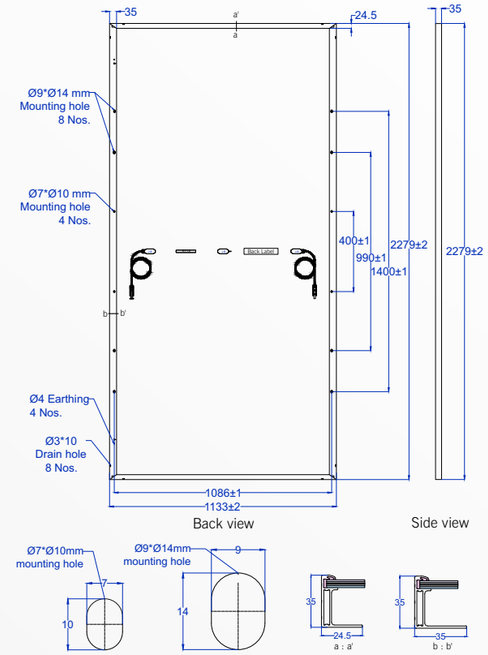
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	144 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected reflective backsheet
Frame	Silver Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2279 mm x (W) 1133 mm x (H) 35 mm"
Weight	~28 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, [#]IS 14286:2010/IEC 61215:2005, [#]IS/IEC 61730-1 & 2: 2004, UL 61730-1 &2 , IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, IEC 61853, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10M144WF-V4.4

GOLDI SOLAR

HELOC® PRO

GS10-B144-TF (525 Wp - 550 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.30%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B144-TF					
Capacity rating – Pmax(Wp)	525	530	535	540	545	550
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.33	20.53	20.72	20.91	21.11	21.30
Rated voltage - Vmp(V)	40.88	41.05	41.20	41.39	41.55	41.71
Rated current - Imp(A)	12.84	12.91	1298	13.05	13.12	13.19
Open circuit voltage - Voc(V)	48.72	48.91	49.10	49.29	49.48	49.67
Short circuit current - Isc(A)	13.43	13.51	13.59	13.67	13.75	13.83

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	388	392	396	399	403	407
Rated voltage - Vmp(V)	38.13	38.28	38.42	38.60	38.75	38.90
Rated current - Imp(A)	10.19	10.24	10.30	10.35	10.41	10.47
Open circuit voltage - Voc(V)	45.56	45.74	45.92	46.09	46.27	46.45
Short circuit current - Isc(A)	10.81	10.88	10.94	11.01	11.07	11.14

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	578	583	589	594	600	605
Rated voltage - Vmp(V)	40.88	41.05	41.20	41.39	41.55	41.71
Rated current - Imp(A)	14.12	14.19	14.27	14.35	14.45	14.50
Open circuit voltage - Voc(V)	48.72	48.91	49.10	49.29	49.48	49.67
Short circuit current - Isc(A)	14.77	14.86	14.94	15.03	15.12	15.21

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

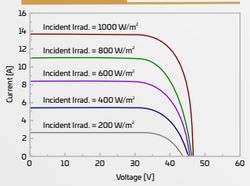
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.35% /°C

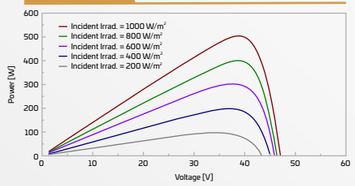
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	20
No of module, 40ft HC container	620

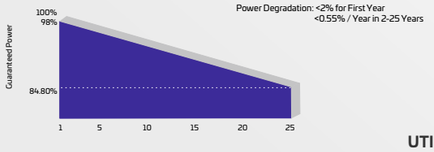
IV CURVE



PV CURVE



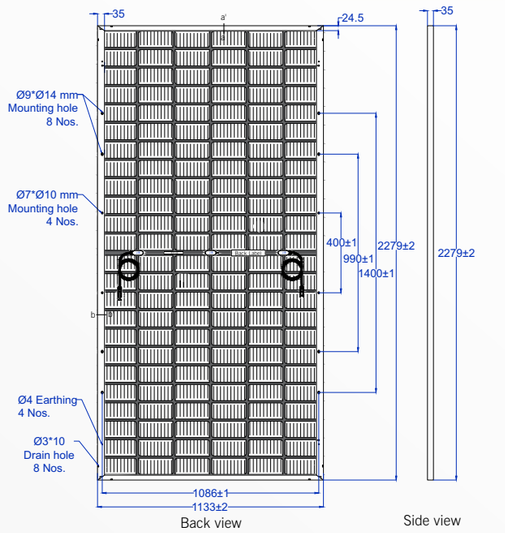
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	144 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	Transparent backsheet-White/Black Mesh Type
Frame	Anodized Aluminium Alloy-Silver/Black
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2279 mm x (W) 1133 mm x (H) 35 mm"
Weight	~28 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004 UL 61730-1 &2 , IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, IEC 61853, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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- For handling & installation instructions, refer to Goldi's installation manual available on the company website
- Before placing an order, confirm your requirements with our sales representative
- The electrical data provided is for reference purposes only
- PV modules needs to be disposed as per goverment regulations, after it's life cycle
- Refer to Goldi's warranty document for terms and conditions
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TDS-GS10B144TF-V4.4

HELOC® PRO

GS10-B144-GF (525 Wp - 550 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.30%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

30 YEARS — 30 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B144-GF					
Capacity rating – Pmax(Wp)	525	530	535	540	545	550
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.33	20.53	20.72	20.91	21.11	21.30
Rated voltage - Vmp(V)	40.68	41.88	41.04	41.27	41.45	41.63
Rated current - Imp(A)	12.91	12.96	13.03	13.10	13.16	13.22
Open circuit voltage - Voc(V)	49.05	49.21	49.39	49.56	49.73	49.90
Short circuit current - Isc(A)	13.42	13.49	13.56	13.63	13.70	13.77

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	389	392	396	400	403	407
Rated voltage - Vmp(V)	37.94	38.13	38.28	38.49	38.66	38.83
Rated current - Imp(A)	10.24	10.28	10.34	10.39	10.44	10.49
Open circuit voltage - Voc(V)	45.87	46.02	46.19	46.35	46.50	46.66
Short circuit current - Isc(A)	10.81	10.86	10.92	10.98	11.03	11.09

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	578	583	589	594	600	605
Rated voltage - Vmp(V)	40.68	41.88	41.04	41.27	41.45	41.63
Rated current - Imp(A)	14.20	14.25	14.33	14.41	14.47	14.54
Open circuit voltage - Voc(V)	49.05	49.21	49.39	49.56	49.73	49.90
Short circuit current - Isc(A)	14.76	14.83	14.91	14.99	15.07	15.14

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

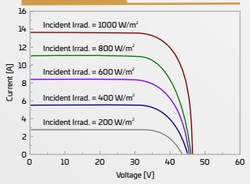
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.050% /°C
Temperature Coefficient (Pmax)	-0.32% /°C

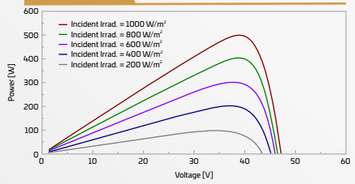
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	20
No of module, 40ft HC container	620

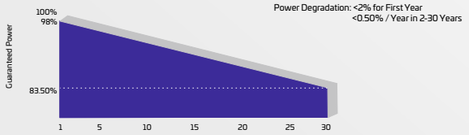
IV CURVE



PV CURVE



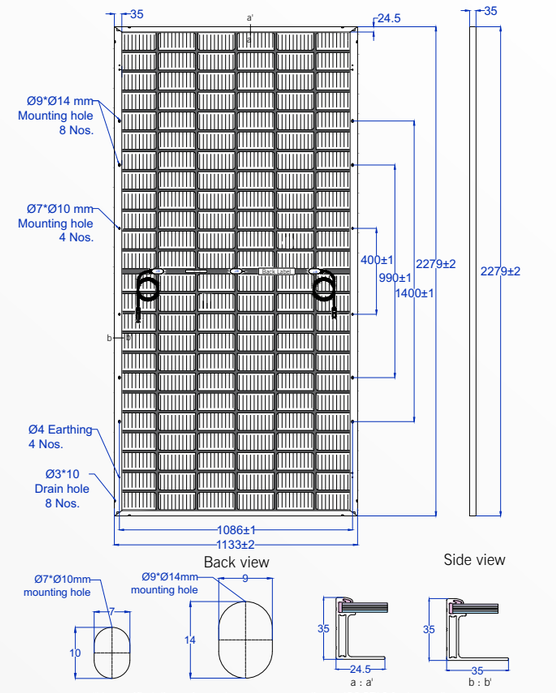
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	144 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 2279 mm x (W) 1133 mm x (H) 35 mm"
Weight	~32 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



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PRODUCT CERTIFICATIONS

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IS/IEC 61730-1 & 2: 2004, CEC, IEC 61701, IEC 62716, IEC 60068-2-68
UL 61730-1 &2 , IEC 62804, IEC 61853

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001,
ISO 14001,
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10B144GF-V4.5

HELOC® PRO

GS10-M144-BF (525 Wp - 540 Wp)

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Lower LCOE, reduced BOS cost, shorter payback time

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High waterproof level

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25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module			
Module Type	**GS10-M144-BF**			
Capacity rating – Pmax(Wp)	525	530	535	540
Power Tolerance (%)	0-2	0-2	0-2	0-2
Module efficiency (%)	20.33	20.53	20.72	20.91
Rated voltage - Vmp(V)	41.28	41.51	41.75	41.97
Rated current - Imp(A)	12.70	12.75	12.80	12.85
Open circuit voltage - Voc(V)	50.02	50.21	50.40	50.61
Short circuit current - Isc(A)	13.20	13.24	13.28	13.33

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

Electrical Parameter at NMOT				
Capacity rating – Pmax(Wp)	389	392	396	400
Rated voltage - Vmp(V)	38.50	38.71	38.94	39.14
Rated current - Imp(A)	10.08	10.12	10.16	10.20
Open circuit voltage - Voc(V)	46.78	46.96	47.13	47.33
Short circuit current - Isc(A)	10.63	10.66	10.69	10.73

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

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

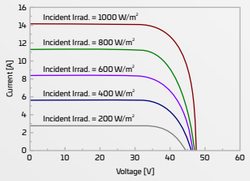
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.35% /°C

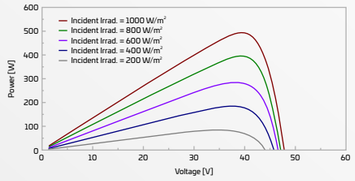
PACKAGING CONFIGURATION**

Number of Modules per Pallet	31
No of pallet	20
No of module, 40ft HC container	620

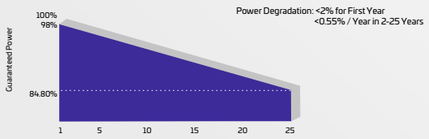
IV CURVE



PV CURVE



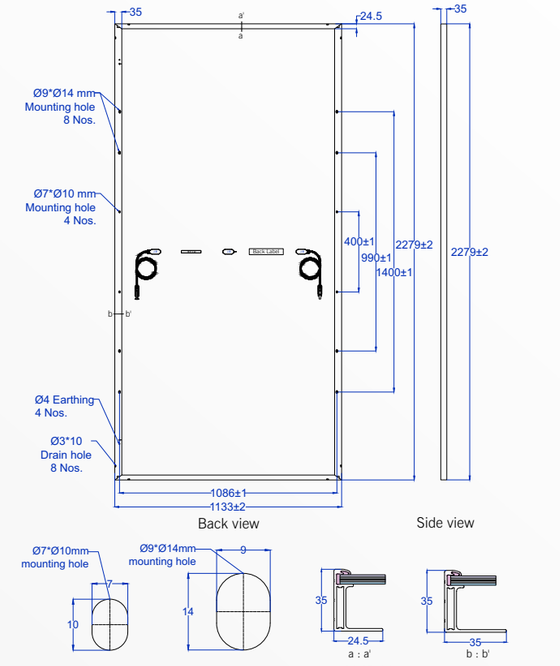
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	144 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected black backsheet
Frame	Black Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2279 mm x (W) 1133 mm x (H) 35 mm"
Weight	~28 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, UL 61730-1 &2

IEC 62804, IEC 61701, IEC 62716, IEC 60068-2-68, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001
ISO 14001
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10M144BF-V1.3

GOLDI SOLAR

HELOC® PRO

GS10-M144-WF (500 Wp - 550 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.30%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module										
Module Type	GS10-M144-WF										
Capacity rating – Pmax(Wp)	500	505	510	515	520	525	530	535	540	545	550
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	19.36	19.56	19.75	19.94	20.14	20.33	20.53	20.72	20.91	21.10	21.30
Rated voltage - Vmp(V)	40.14	40.37	40.60	40.83	41.06	41.28	41.51	41.75	41.97	42.20	42.42
Rated current - Imp(A)	12.46	12.50	12.55	12.60	12.65	12.70	12.75	12.80	12.85	12.90	12.94
Open circuit voltage - Voc(V)	49.07	49.26	49.45	49.64	49.83	50.02	50.21	50.40	50.61	50.80	50.90
Short circuit current - Isc(A)	13.00	13.04	13.08	13.12	13.16	13.20	13.24	13.28	13.33	13.36	13.39

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

Electrical Parameter at NMOT											
Capacity rating – Pmax(Wp)	370	374	378	381	385	389	392	396	400	403	407
Rated voltage - Vmp(V)	37.44	37.65	37.86	38.08	38.29	38.50	38.71	38.94	39.14	39.36	39.56
Rated current - Imp(A)	9.88	9.92	9.96	10.00	10.04	10.08	10.12	10.16	10.20	10.24	10.27
Open circuit voltage - Voc(V)	45.89	46.07	46.24	46.42	46.60	46.78	46.96	47.13	47.33	47.51	47.60
Short circuit current - Isc(A)	10.47	10.50	10.53	10.57	10.60	10.63	10.66	10.69	10.73	10.76	10.78

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

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

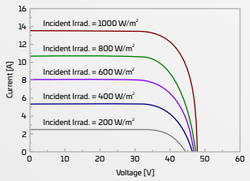
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.34% /°C

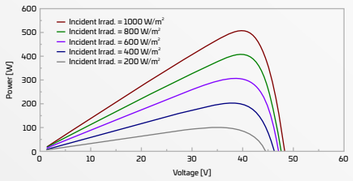
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	20
No of module, 40ft HC container	620

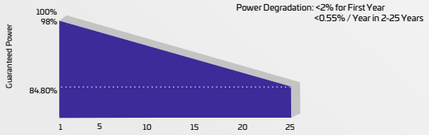
IV CURVE



PV CURVE



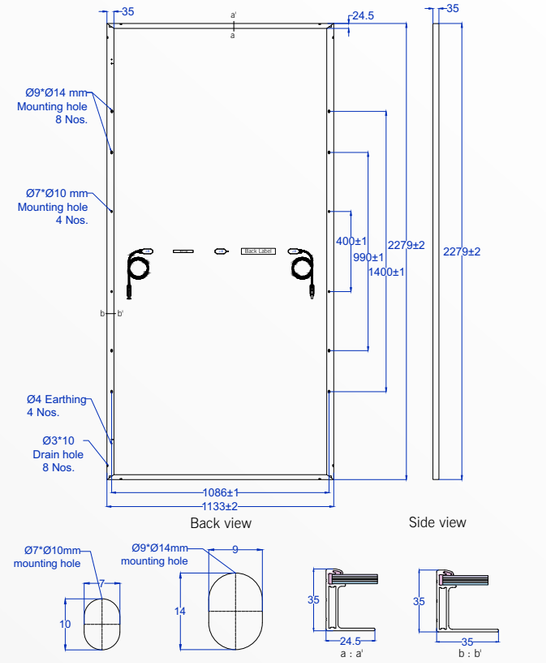
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	144 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected reflective backsheet
Frame	Silver Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2279 mm x (W) 1133 mm x (H) 35 mm"
Weight	~28 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
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

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004,
IEC 62804, IEC 61853-1,2, IEC 61701, IEC 62716, IEC 60068-2-68

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001,
ISO 14001,
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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GOLDI SOLAR

HELOC® PRO

GS10-M132-BF (480 Wp - 495 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 20.85%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 Years Warranty For Materials And Processing

25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module			
Module Type	GS10-M132-BF			
Capacity rating – Pmax(Wp)	480	485	490	495
Power Tolerance (%)	0-2	0-2	0-2	0-2
Module efficiency (%)	20.22	20.43	20.64	20.85
Rated voltage - Vmp(V)	37.62	37.81	37.99	38.17
Rated current - Imp(A)	12.76	12.83	12.90	12.97
Open circuit voltage - Voc(V)	45.07	45.20	45.33	45.46
Short circuit current - Isc(A)	13.62	13.72	13.79	13.86

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

Electrical Parameter at NMOT				
Capacity rating – Pmax(Wp)	355	359	363	366
Rated voltage - Vmp(V)	35.09	35.26	35.43	35.60
Rated current - Imp(A)	10.12	10.18	10.24	10.29
Open circuit voltage - Voc(V)	42.15	42.27	42.39	42.51
Short circuit current - Isc(A)	10.97	11.05	11.10	11.16

Irradiance 800 W/m², ambient temperature 20°C,Module temperature 45°C, wind speed 1 m/sec

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

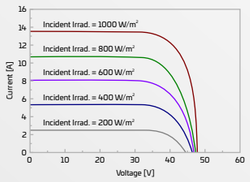
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.34% /°C

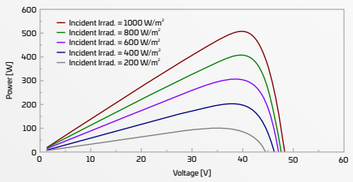
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	22
No of module, 40ft HC container	682

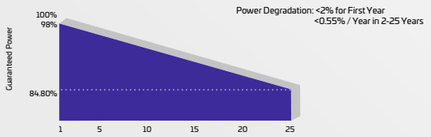
IV CURVE



PV CURVE



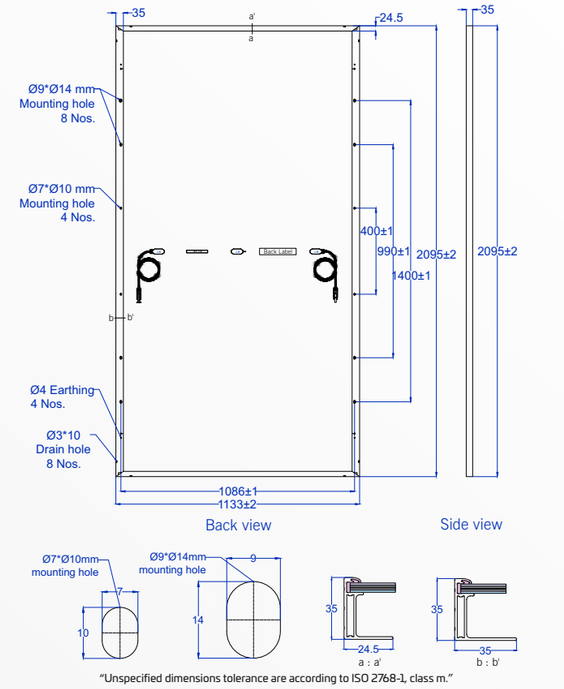
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	132 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected reflective backsheet
Frame	Black Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2095 mm x (W) 1133 mm x (H) 35 mm"
Weight	~26.5 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, UL 61730-1&2
IEC 62804, IEC 61701, IEC 62716, IEC 60068-2-68, CE

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001,
ISO 14001,
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10M132BF-V1.1

GOLDI SOLAR

HELOC® PRO

GS10-M132-WF (480 Wp - 505 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.28%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 Years Warranty For Materials And Processing

25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module					
Module Type	GS10-M132-WF					
Capacity rating – Pmax(Wp)	480	485	490	495	500	505
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.22	20.43	20.64	20.85	21.06	21.28
Rated voltage - Vmp(V)	37.62	37.81	37.99	38.17	38.36	38.54
Rated current - Imp(A)	12.76	12.83	12.90	12.97	13.04	13.11
Open circuit voltage - Voc(V)	45.07	45.20	45.33	45.46	45.59	45.72
Short circuit current - Isc(A)	13.62	13.72	13.79	13.86	13.95	14.02

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	355	359	363	366	370	374
Rated voltage - Vmp(V)	35.09	35.26	35.43	35.60	35.77	35.94
Rated current - Imp(A)	10.12	10.18	10.24	10.29	10.35	10.40
Open circuit voltage - Voc(V)	42.15	42.27	42.39	42.51	42.51	42.75
Short circuit current - Isc(A)	10.97	11.05	11.10	11.16	11.23	11.29

Irradiance 800 W/m², ambient temperature 20°C,Module temperature 45°C, wind speed 1 m/sec

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.34% /°C

PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	22
No of module, 40ft HC container	682

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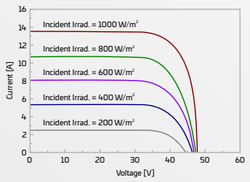
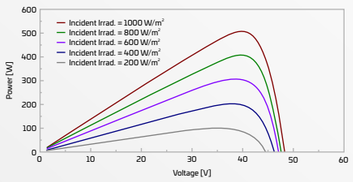
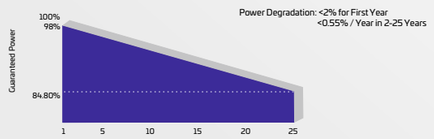


PV CURVE



LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	132 pcs monocrystalline Silicon (PERC), Multi BB
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Backside	UV protected reflective backsheet
Frame	Silver Anodized Aluminium Alloy
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J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

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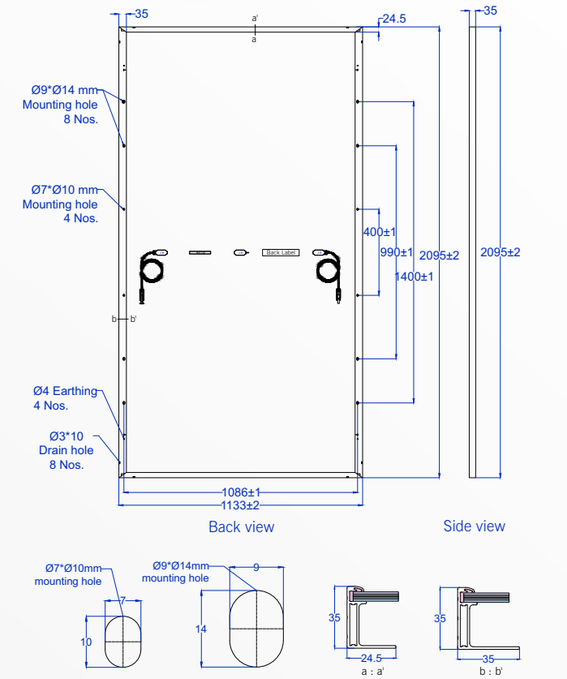

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PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005,
IS/IEC 61730-1 & 2: 2004
UL 61730-1 &2 , IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, IEC 62759-1, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001,
ISO 14001,
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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HELOC® PRO

GS10-B132-TF (480 Wp - 505 Wp)

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Excellent module conversion efficiency of up to 21.28%

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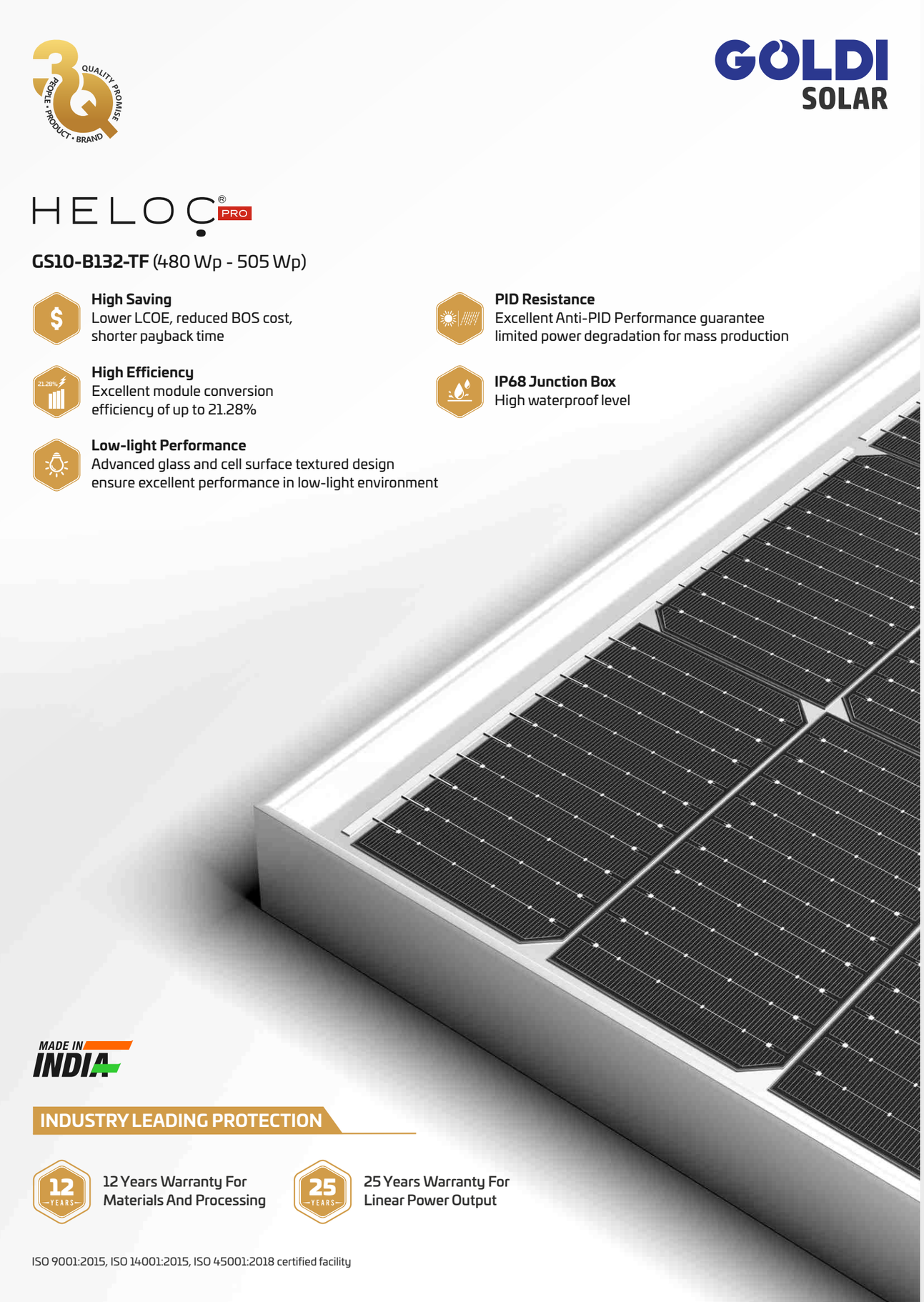
Advanced glass and cell surface textured design ensure excellent performance in low-light environment

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

IP68 Junction Box
High waterproof level



MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 Years Warranty For Materials And Processing

25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B132-TF					
Capacity rating – Pmax(Wp)	480	485	490	495	500	505
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.22	20.43	20.64	20.85	21.06	21.28
Rated voltage - Vmp(V)	37.62	37.81	37.99	38.17	38.36	38.54
Rated current - Imp(A)	12.76	12.83	12.90	12.97	13.04	13.11
Open circuit voltage - Voc(V)	45.07	45.20	45.33	45.46	45.59	45.72
Short circuit current - Isc(A)	13.62	13.72	13.79	13.86	13.95	14.02

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	355	359	363	366	370	374
Rated voltage - Vmp(V)	35.09	35.26	35.43	35.60	35.77	35.94
Rated current - Imp(A)	10.12	10.18	10.24	10.29	10.35	10.40
Open circuit voltage - Voc(V)	42.15	42.27	42.39	42.51	42.51	42.75
Short circuit current - Isc(A)	10.97	11.05	11.10	11.16	11.23	11.29

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	528	534	539	545	550	556
Rated voltage - Vmp(V)	37.62	37.81	37.99	38.17	38.36	38.54
Rated current - Imp(A)	14.04	14.11	14.19	14.27	14.34	14.42
Open circuit voltage - Voc(V)	45.07	45.20	45.33	45.46	45.59	45.72
Short circuit current - Isc(A)	14.98	15.09	15.17	15.25	15.35	15.42

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

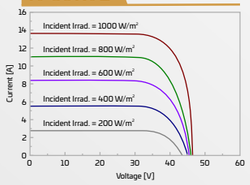
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.34% /°C

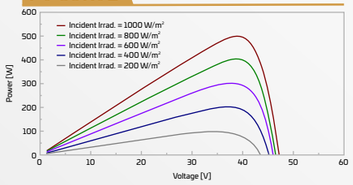
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	22
No of module, 40ft HC container	682

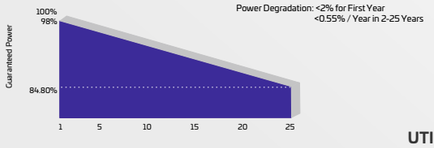
IV CURVE



PV CURVE



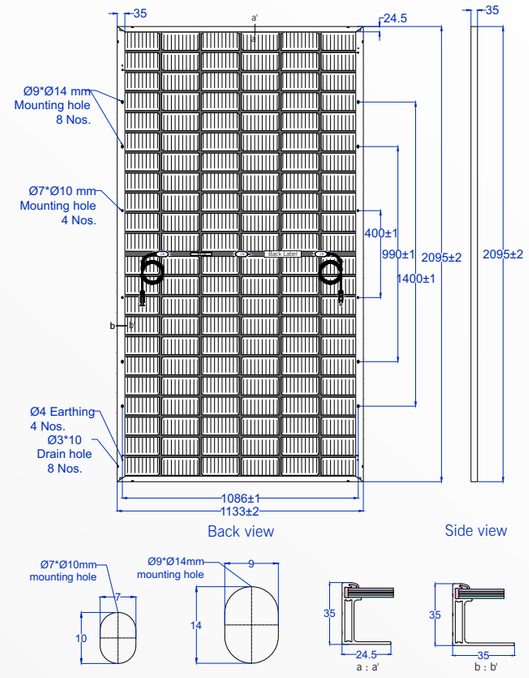
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	132 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2095 mm x (W) 1133 mm x (H) 35 mm"
Weight	~26.5 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004, CEC, IEC 61701, IEC 62716, IEC 60068-2-68 UL 61730-1 &2 , IEC 62804, IEC 61853

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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HELOC® PRO

GS10-B132-GF (480 Wp - 505 Wp)

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 21.28%

IP68 Junction Box
High waterproof level

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

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

30 YEARS — 30 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B132-GF					
Capacity rating – Pmax(Wp)	480	485	490	495	500	505
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.22	20.43	20.64	20.85	21.06	21.28
Rated voltage - Vmp(V)	37.62	37.81	37.99	38.17	38.36	38.54
Rated current - Imp(A)	12.76	12.83	12.90	12.97	13.04	13.11
Open circuit voltage - Voc(V)	45.07	45.20	45.33	45.46	45.59	45.72
Short circuit current - Isc(A)	13.62	13.72	13.79	13.86	13.95	14.02

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	355	359	363	366	370	374
Rated voltage - Vmp(V)	35.09	35.26	35.43	35.60	35.77	35.94
Rated current - Imp(A)	10.12	10.18	10.24	10.29	10.35	10.40
Open circuit voltage - Voc(V)	42.15	42.27	42.39	42.51	42.51	42.75
Short circuit current - Isc(A)	10.97	11.05	11.10	11.16	11.23	11.29

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	528	534	539	545	550	556
Rated voltage - Vmp(V)	37.62	37.81	37.99	38.17	38.36	38.54
Rated current - Imp(A)	14.04	14.11	14.19	14.27	14.34	14.42
Open circuit voltage - Voc(V)	45.07	45.20	45.33	45.46	45.59	45.72
Short circuit current - Isc(A)	14.98	15.09	15.17	15.25	15.35	15.42

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

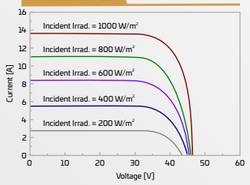
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.050% /°C
Temperature Coefficient (Pmax)	-0.32% /°C

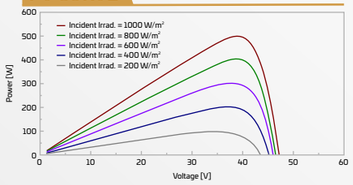
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	22
No of module, 40ft HC container	682

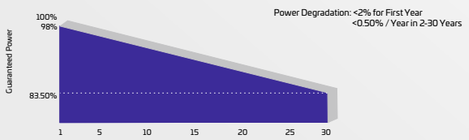
IV CURVE



PV CURVE



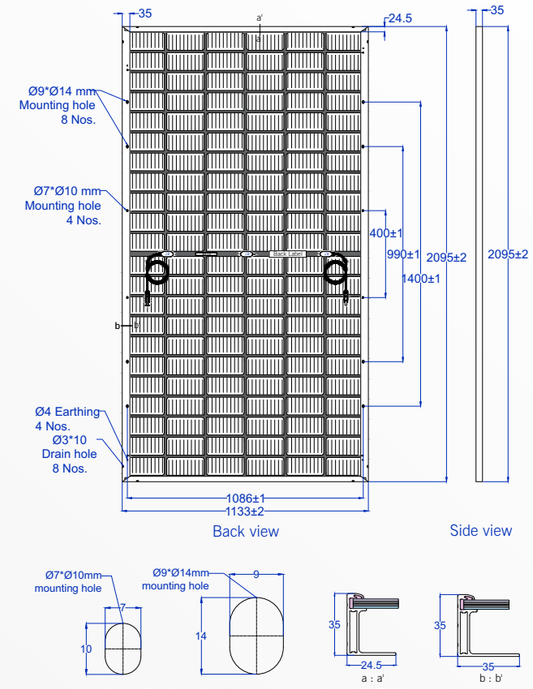
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	132 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 2095 mm x (W) 1133 mm x (H) 35 mm"
Weight	~28 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005,
IS/IEC 61730-1 & 2: 2004, CEC, IEC 61701, IEC 62716, IEC 60068-2-68
UL 61730-1 &2 , IEC 62804, IEC 61853

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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GOLDI SOLAR

HELOC® PRO

GS10-M120-WF (435 Wp - 460 Wp)

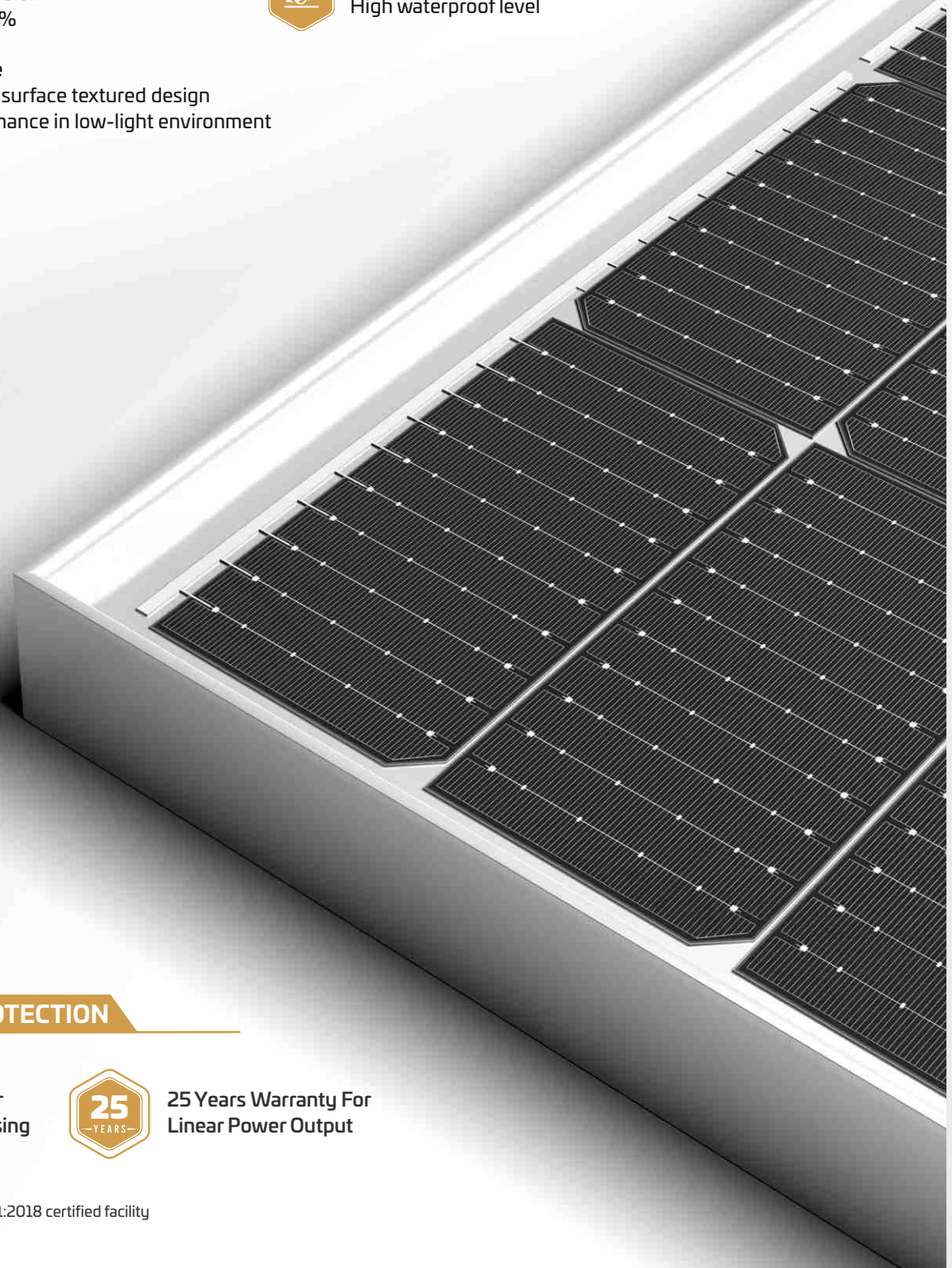
High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.26%

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

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

IP68 Junction Box
High waterproof level



MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module					
Module Type	GS10-M120-WF					
Capacity rating – Pmax(Wp)	435	440	445	450	455	460
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	20.10	20.33	20.56	20.79	21.03	21.26
Rated voltage - Vmp(V)	36.03	36.26	36.37	36.51	36.65	36.81
Rated current - Imp(A)	12.05	12.14	12.24	12.33	12.42	12.52
Open circuit voltage - Voc(V)	41.02	41.04	41.16	41.22	41.28	41.35
Short circuit current - Isc(A)	13.34	13.36	13.41	13.45	13.55	13.58

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	322	326	329	333	337	341
Rated voltage - Vmp(V)	33.60	33.82	36.03	36.03	36.03	36.03
Rated current - Imp(A)	09.56	09.63	09.71	09.78	09.85	09.93
Open circuit voltage - Voc(V)	38.36	38.38	38.49	38.55	38.60	38.67
Short circuit current - Isc(A)	10.74	10.76	10.80	10.83	10.91	10.93

Irradiance 800 W/m², ambient temperature 20°C,Module temperature 45°C, wind speed 1 m/sec

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

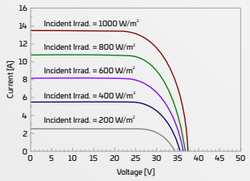
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.34% /°C

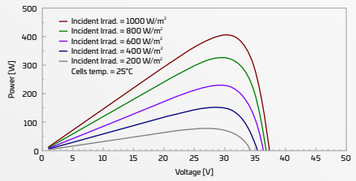
PACKAGING CONFIGURATION**

Number of Modules per Pallet	31
No of pallet	24
No of module, 40ft HC container	744

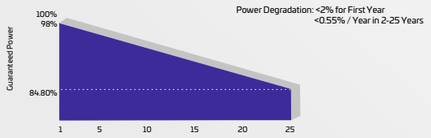
IV CURVE



PV CURVE



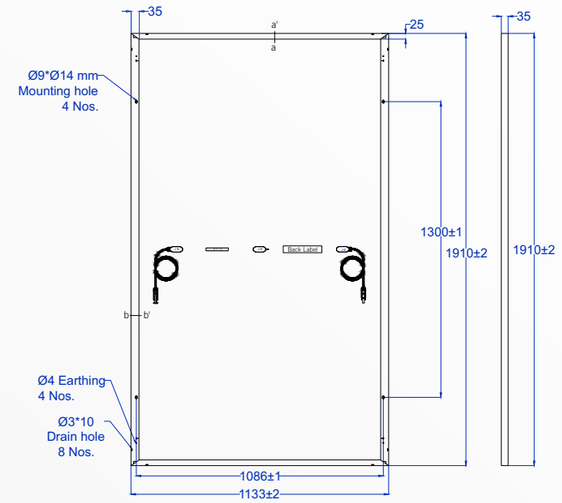
LINEAR GRAPH

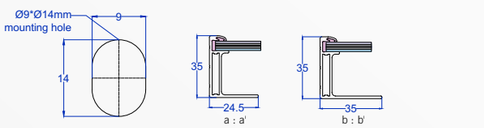


MECHANICAL SPECIFICATION

Solar cells	120 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected black backsheet
Frame	Silver Anodized Aluminium Alloy
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1910 mm x (W) 1133 mm x (H) 35 mm"
Weight	~24 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)





"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, UL 61730-1&2

IEC 62804, IEC 61701, IEC 62716, IEC 60068-2-68, CE

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001
ISO 14001
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10M120WF-V1.2

HELOC® PRO

GS10-B120-TF (435 Wp - 460 Wp)

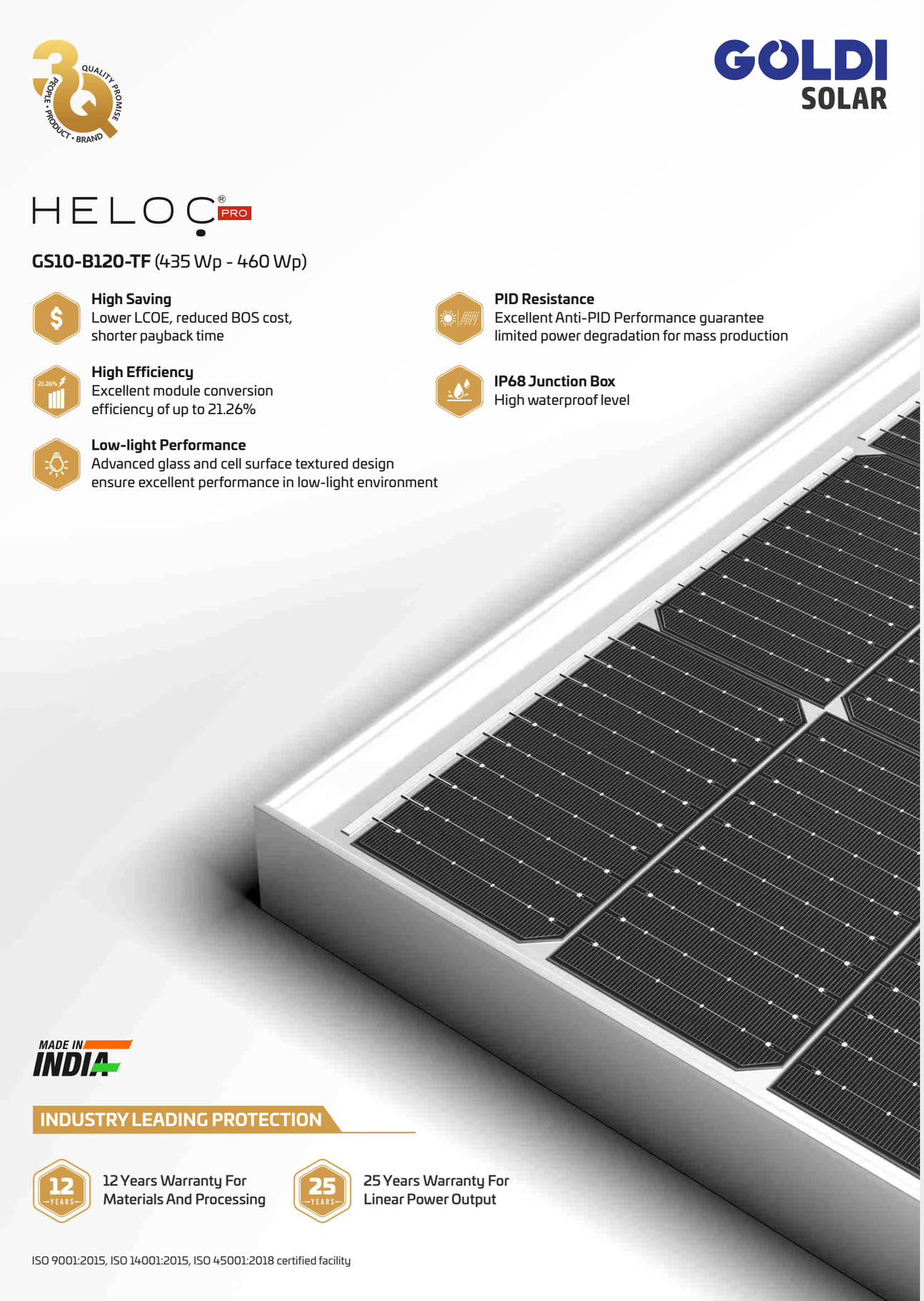
High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.26%

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

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

IP68 Junction Box
High waterproof level



MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

GOLDI SOLAR

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B120-TF					
Capacity rating – Pmax(Wp)	435	440	445	450	455	460
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	20.10	20.33	20.56	20.79	21.03	21.26
Rated voltage - Vmp(V)	36.03	36.26	36.37	36.51	36.65	36.81
Rated current - Imp(A)	12.05	12.14	12.24	12.33	12.42	12.52
Open circuit voltage - Voc(V)	41.02	41.04	41.16	41.22	41.28	41.35
Short circuit current - Isc(A)	13.34	13.36	13.41	13.45	13.55	13.58

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	322	326	329	333	337	341
Rated voltage - Vmp(V)	33.60	33.82	36.03	36.03	36.03	36.03
Rated current - Imp(A)	09.56	09.63	09.71	09.78	09.85	09.93
Open circuit voltage - Voc(V)	38.36	38.38	38.49	38.55	38.60	38.67
Short circuit current - Isc(A)	10.74	10.76	10.80	10.83	10.91	10.93

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	479	484	490	495	501	506
Rated voltage - Vmp(V)	36.03	36.26	36.37	36.51	36.65	36.81
Rated current - Imp(A)	13.25	13.35	13.46	13.56	13.66	13.77
Open circuit voltage - Voc(V)	41.02	41.04	41.16	41.22	41.28	41.35
Short circuit current - Isc(A)	14.67	14.70	14.75	14.80	14.91	14.94

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

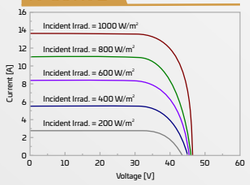
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.050% /°C
Temperature Coefficient (Pmax)	-0.32% /°C

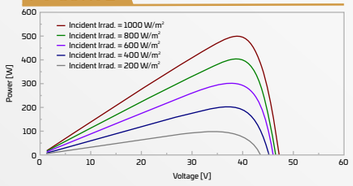
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	24
No of module, 40ft HC container	744

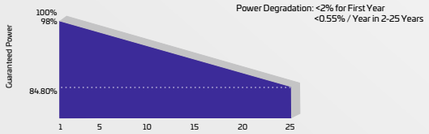
IV CURVE



PV CURVE



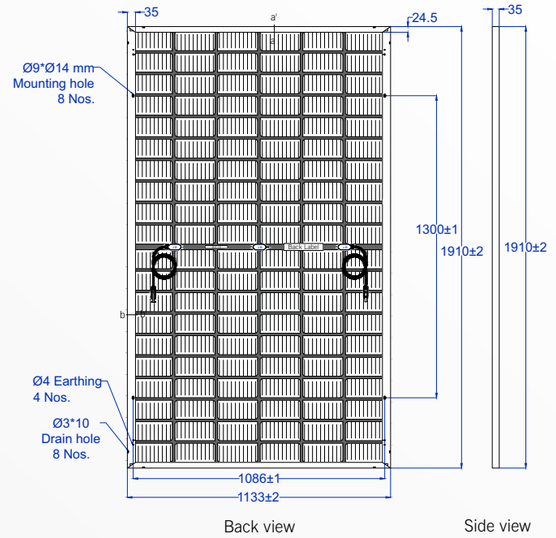
LINEAR GRAPH

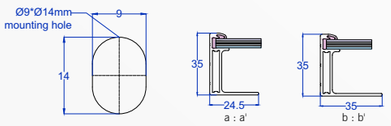


MECHANICAL SPECIFICATION

Solar cells	120 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1910 mm x (W) 1133 mm x (H) 35 mm"
Weight	~24 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)





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PRODUCT CERTIFICATIONS

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MANAGEMENT SYSTEM CERTIFICATIONS

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UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10B120TF-V1.1

GOLDI SOLAR

HELOC® PRO

GS10-B120-GF (435 Wp - 460 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.26%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

30 YEARS — 30 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B120-GF					
Capacity rating – Pmax(Wp)	435	440	445	450	455	460
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	20.10	20.33	20.56	20.79	21.03	21.26
Rated voltage - Vmp(V)	36.03	36.26	36.37	36.51	36.65	36.81
Rated current - Imp(A)	12.05	12.14	12.24	12.33	12.42	12.52
Open circuit voltage - Voc(V)	41.02	41.04	41.16	41.22	41.28	41.35
Short circuit current - Isc(A)	13.34	13.36	13.41	13.45	13.55	13.58

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	322	326	329	333	337	341
Rated voltage - Vmp(V)	33.60	33.82	36.03	36.03	36.03	36.03
Rated current - Imp(A)	09.56	09.63	09.71	09.78	09.85	09.93
Open circuit voltage - Voc(V)	38.36	38.38	38.49	38.55	38.60	38.67
Short circuit current - Isc(A)	10.74	10.76	10.80	10.83	10.91	10.93

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	479	484	490	495	501	506
Rated voltage - Vmp(V)	36.03	36.26	36.37	36.51	36.65	36.81
Rated current - Imp(A)	13.25	13.35	13.46	13.56	13.66	13.77
Open circuit voltage - Voc(V)	41.02	41.04	41.16	41.22	41.28	41.35
Short circuit current - Isc(A)	14.67	14.70	14.75	14.80	14.91	14.94

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

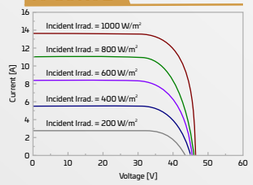
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.050% /°C
Temperature Coefficient (Pmax)	-0.32% /°C

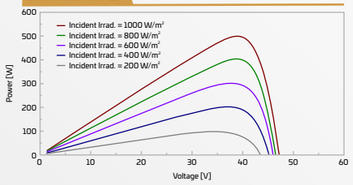
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	24
No of module, 40ft HC container	744

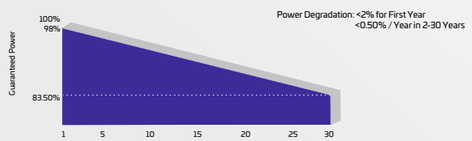
IV CURVE



PV CURVE



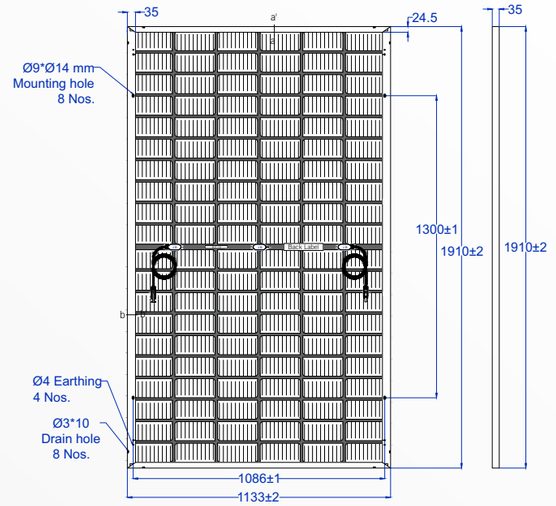
LINEAR GRAPH

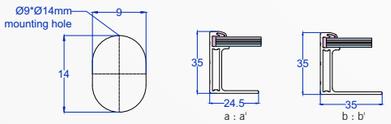


MECHANICAL SPECIFICATION

Solar cells	120 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 1910 mm x (W) 1133 mm x (H) 35 mm"
Weight	~28 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)





"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005,
IS/IEC 61730-1 & 2: 2004, CEC, IEC 61701, IEC 62716, IEC 60068-2-68
UL 61730-1 &2 , IEC 62804, IEC 61853

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10B120GF-V 1.3

HELOC® PRO

GS10-M120-BF (435 Wp - 450 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 20.79%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module			
Module Type	**GS10-M120-BF**			
Capacity rating – Pmax(Wp)	435	440	445	450
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	20.10	20.33	20.56	20.79
Rated voltage - Vmp(V)	36.03	36.26	36.37	36.51
Rated current - Imp(A)	12.05	12.14	12.24	12.33
Open circuit voltage - Voc(V)	41.02	41.04	41.16	41.22
Short circuit current - Isc(A)	13.34	13.36	13.41	13.45

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

Electrical Parameter at NMOT				
Capacity rating – Pmax(Wp)	322	326	329	333
Rated voltage - Vmp(V)	33.60	33.82	33.92	34.05
Rated current - Imp(A)	9.56	9.63	9.71	9.78
Open circuit voltage - Voc(V)	38.36	38.38	38.49	38.55
Short circuit current - Isc(A)	10.74	10.76	10.80	10.83

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

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

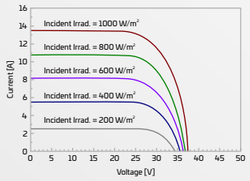
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.35% /°C

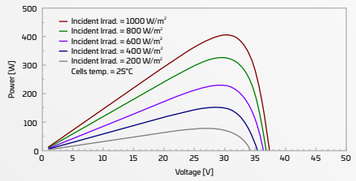
PACKAGING CONFIGURATION**

Number of Modules per Pallet	31
No of pallet	24
No of module, 40ft HC container	744

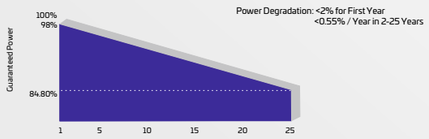
IV CURVE



PV CURVE



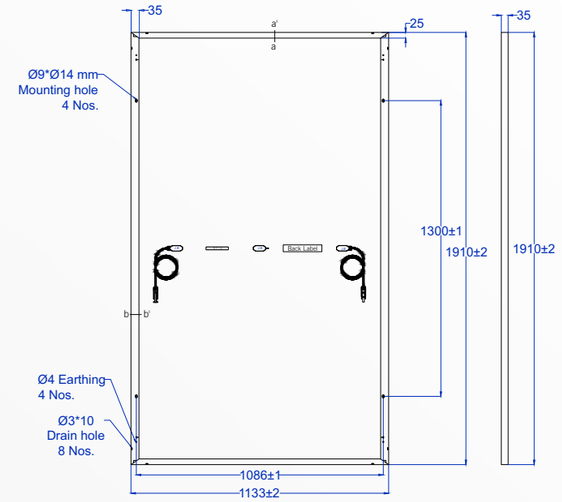
LINEAR GRAPH

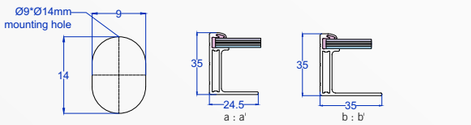


MECHANICAL SPECIFICATION

Solar cells	120 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected black backsheet
Frame	Black Anodized Aluminium Alloy
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1910 mm x (W) 1133 mm x (H) 35 mm"
Weight	~24 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)





"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, UL 61730-1&2

IEC 62804, IEC 61701, IEC 62716, IEC 60068-2-68, CE

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001
ISO 14001
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10M120BF-V1.2

HELOC® PRO

GS10-M108-WF (390 Wp - 415 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.17%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 Years Warranty For Materials And Processing

25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-M108-WF					
Capacity rating – Pmax(Wp)	390	395	400	405	410	415
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	19.90	20.15	20.40	20.66	20.92	21.17
Rated voltage - Vmp(V)	30.77	30.95	31.10	31.27	31.44	31.61
Rated current - Imp(A)	12.69	12.77	12.87	12.96	13.05	13.14
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15	37.20	37.25
Short circuit current - Isc(A)	13.41	13.44	13.47	13.50	13.53	13.56

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	289	292	296	300	304	307
Rated voltage - Vmp(V)	28.70	28.87	29.00	29.16	29.32	29.48
Rated current - Imp(A)	10.07	10.13	10.21	10.18	10.35	10.43
Open circuit voltage - Voc(V)	34.60	34.65	34.69	34.74	34.79	34.83
Short circuit current - Isc(A)	10.80	10.82	10.85	10.87	10.89	10.92

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

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

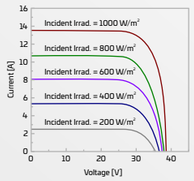
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.34% /°C

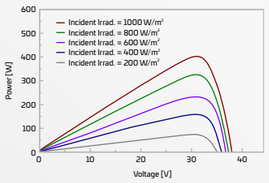
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	26
No of module, 40ft HC container	806

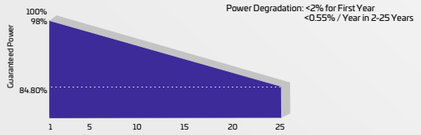
IV CURVE



PV CURVE



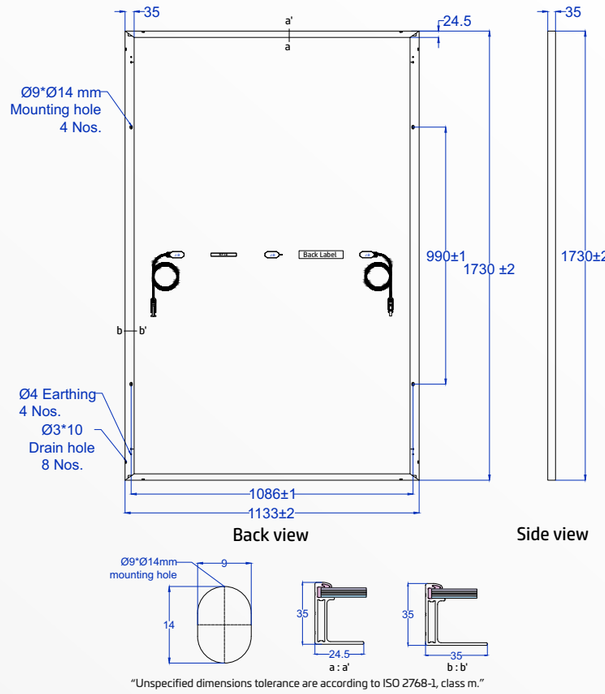
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	108 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected reflective backsheet
Frame	Silver Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1730 mm x (W) 1133 mm x (H) 35 mm"
Weight	~21 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



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PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005,
IS/IEC 61730-1 & 2: 2004
UL 61730-1 & 2, IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001,
ISO 14001,
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10M108WF-V1.2

HELOC® PRO

GS10-B108-TF (390 Wp - 415 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

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Excellent module conversion efficiency of up to 21.17%

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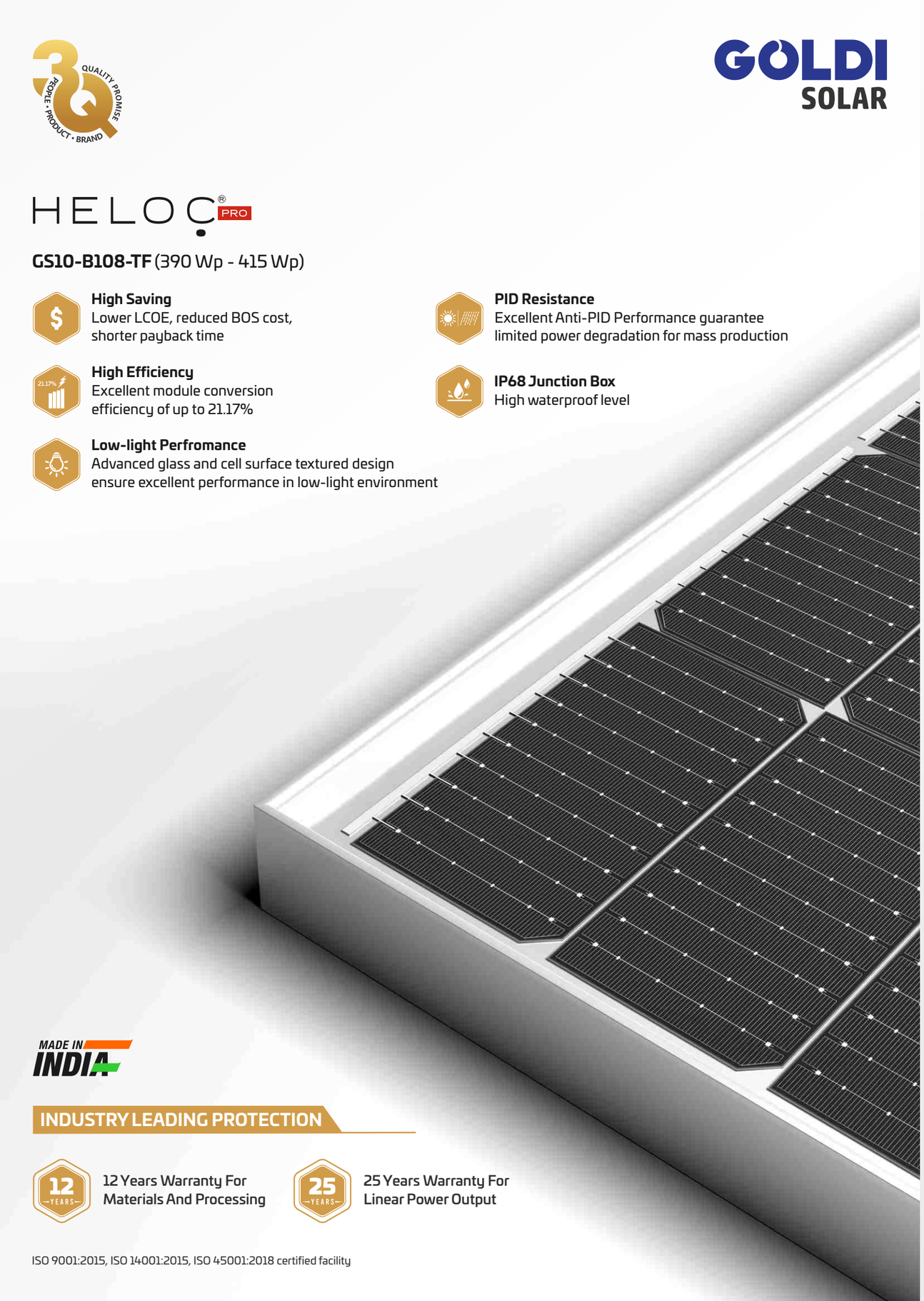
IP68 Junction Box
High waterproof level



MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

25 YEARS — 25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B108-TF					
Capacity rating – Pmax(Wp)	390	395	400	405	410	415
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	19.90	20.15	20.40	20.66	20.92	21.17
Rated voltage - Vmp(V)	30.77	30.95	31.10	31.27	31.44	31.61
Rated current - Imp(A)	12.69	12.77	12.87	12.96	13.05	13.14
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15	37.20	37.25
Short circuit current - Isc(A)	13.41	13.44	13.47	13.50	13.53	13.56

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	289	292	296	300	304	307
Rated voltage - Vmp(V)	28.70	28.87	29.00	29.16	29.32	29.48
Rated current - Imp(A)	10.07	10.13	10.21	10.18	10.35	10.43
Open circuit voltage - Voc(V)	34.60	34.65	34.69	34.74	34.79	34.83
Short circuit current - Isc(A)	10.80	10.82	10.85	10.87	10.89	10.92

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	429	434	440	445	451	456
Rated voltage - Vmp(V)	19.90	20.15	20.40	20.66	20.92	21.17
Rated current - Imp(A)	13.96	14.05	14.16	14.26	14.35	14.45
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15	37.20	37.25
Short circuit current - Isc(A)	14.75	14.78	14.82	14.85	14.88	14.92

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

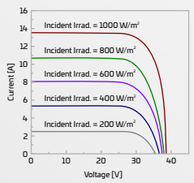
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.35% /°C

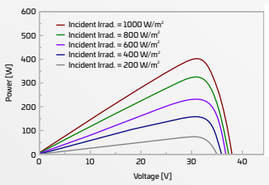
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	26
No of module, 40ft HC container	806

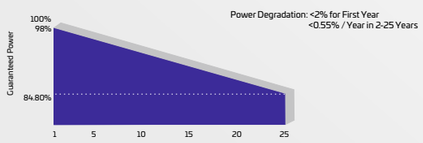
IV CURVE



PV CURVE



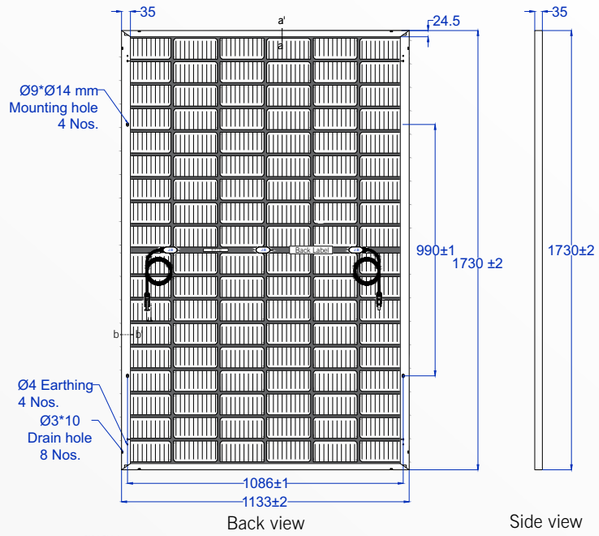
LINEAR GRAPH

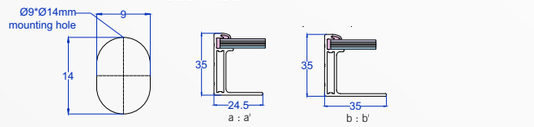


MECHANICAL SPECIFICATION

Solar cells	108 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	Transperent Backsheet-White/Black Mesh type
Frame	Anodized Alluminum Alloy-Silver/Black
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1730 mm x (W) 1133 mm x (H) 35 mm"
Weight	~21 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	Mc4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)





"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005,
IS/IEC 61730-1 & 2: 2004
UL 61730-1 & 2, IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001
ISO 14001
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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- The electrical data provided is for reference purposes only
- PV modules needs to be disposed as per goverment regulations, after it's life cycle
- Refer to Goldi's 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

GOLDI SOLAR

HELOC® PRO

GS10-B108-GF (390 Wp - 415 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 21.17%

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

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

IP68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 YEARS — 12 Years Warranty For Materials And Processing

30 YEARS — 30 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module					
Module Type	GS10-B108-GF					
Capacity rating – Pmax(Wp)	390	395	400	405	410	415
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	19.90	20.15	20.40	20.66	20.92	21.17
Rated voltage - Vmp(V)	30.77	30.95	31.10	31.27	31.44	31.61
Rated current - Imp(A)	12.69	12.77	12.87	12.96	13.05	13.14
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15	37.20	37.25
Short circuit current - Isc(A)	13.41	13.44	13.47	13.50	13.53	13.56

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

Electrical Parameter at NMOT						
Capacity rating – Pmax(Wp)	289	292	296	300	304	307
Rated voltage - Vmp(V)	28.70	28.87	29.00	29.16	29.32	29.48
Rated current - Imp(A)	10.07	10.13	10.21	10.18	10.35	10.43
Open circuit voltage - Voc(V)	34.60	34.65	34.69	34.74	34.79	34.83
Short circuit current - Isc(A)	10.80	10.82	10.85	10.87	10.89	10.92

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	429	434	440	445	451	456
Rated voltage - Vmp(V)	19.90	20.15	20.40	20.66	20.92	21.17
Rated current - Imp(A)	13.96	14.05	14.16	14.26	14.35	14.45
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15	37.20	37.25
Short circuit current - Isc(A)	14.75	14.78	14.82	14.85	14.88	14.92

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 70 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

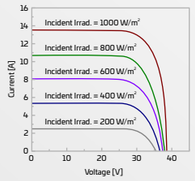
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.050% /°C
Temperature Coefficient (Pmax)	-0.32% /°C

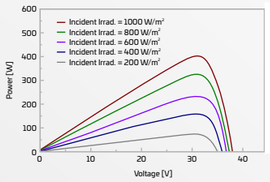
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	26
No of module, 40ft HC container	806

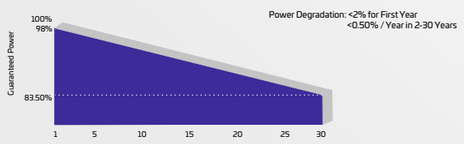
IV CURVE



PV CURVE



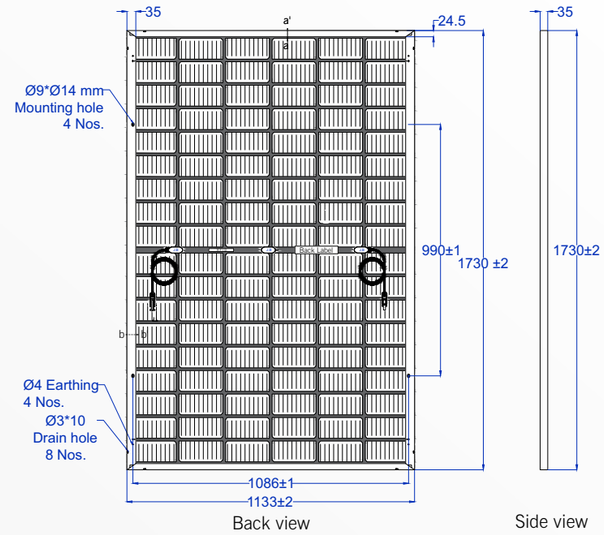
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	108 pcs Bifacial monocrystalline Silicon(PERC), Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 1730 mm x (W) 1133 mm x (H) 35 mm"
Weight	~22 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, IS 14286:2010/IEC 61215:2005,
IS/IEC 61730-1 & 2: 2004
UL 61730-1 & 2, IEC 61701, IEC 62716, IEC 62804, IEC 60068-2-68, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001
ISO 14001
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10B108GF-V1.3

HELOC® PRO

GS10-M108-BF (390 Wp - 405 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 20.66%

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

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

Ip68 Junction Box
High waterproof level

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 Years Warranty For Materials And Processing

25 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module			
Module Type	GS10-B108-BF			
Capacity rating – Pmax(Wp)	390	395	400	405
Power Tolerance (%)	0 - 2	0 - 2	0 - 2	0 - 2
Module efficiency (%)	19.90	20.15	20.40	20.66
Rated voltage - Vmp(V)	30.77	30.95	31.10	31.27
Rated current - Imp(A)	12.69	12.77	12.87	12.96
Open circuit voltage - Voc(V)	37.00	37.05	37.10	37.15
Short circuit current - Isc(A)	13.41	13.44	13.47	13.50

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

Electrical Parameter at NMOT				
Capacity rating – Pmax(Wp)	289	292	296	300
Rated voltage - Vmp(V)	28.70	28.87	29.00	29.16
Rated current - Imp(A)	10.07	10.13	10.21	10.18
Open circuit voltage - Voc(V)	34.60	34.65	34.69	34.74
Short circuit current - Isc(A)	10.80	10.82	10.85	10.87

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

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

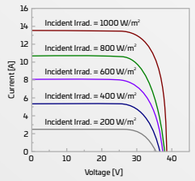
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.28% /°C
Temperature Coefficient (Isc)	0.048% /°C
Temperature Coefficient (Pmax)	-0.35% /°C

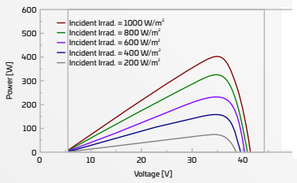
PACKAGING CONFIGURATION##

Number of Modules per Pallet	31
No of pallet	26
No of module, 40ft HC container	806

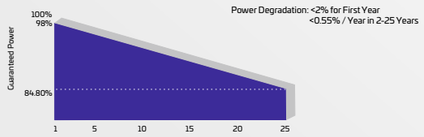
IV CURVE



PV CURVE



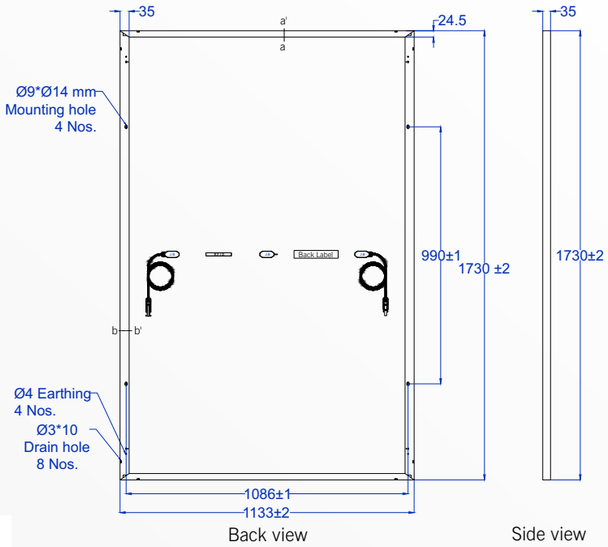
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	108 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	PID & UV resistance
Backside	UV protected reflective backsheet
Frame	Silver Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 1730 mm x (W) 1133 mm x (H) 35 mm"
Weight	~21 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

IEC 61215: 2016, IEC 61730: 2016, UL 61730-1 &2

IEC 62804, IEC 61701, IEC 62716, IEC 60068-2-68, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001
ISO 14001
ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL

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TDS-GS10M108BF-V1.2

HELOC® PRO

GS10-T144-GF (555 Wp - 570 Wp)

High Saving
Lower LCOE, reduced BOS cost, shorter payback time

High Efficiency
Excellent module conversion efficiency of up to 22.06%

Better Weak Illumination Response
Higher power output even under low-light environments like on cloudy or foggy days

ZERO LID (Light Induced Degradation)
N-Type Solar cell Technology offers No-LeTID & No-LID

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

10-30% Additional Power Generation
More than 10-30% additional power gain comparing with the regular modules.

Wider Applicability
More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area

MADE IN INDIA

INDUSTRY LEADING PROTECTION

12 Years Warranty For Materials And Processing

30 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module			
Module Type	GS10-T144-GF			
Capacity rating – Pmax(Wp)	555	560	565	570
Power Tolerance (W)	0~5			
Module efficiency (%)	21.48	21.67	21.87	22.06
Rated voltage - Vmp(V)	42.20	42.40	42.60	42.80
Rated current - Imp(A)	13.16	13.21	13.27	13.32
Open circuit voltage - Voc(V)	50.48	50.68	50.88	51.08
Short circuit current - Isc(A)	14.06	14.12	14.18	14.24

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	610	616	621	627
Rated voltage - Vmp(V)	42.20	42.40	42.60	42.80
Rated current - Imp(A)	14.47	14.53	14.59	14.65
Open circuit voltage - Voc(V)	50.48	50.68	50.88	51.08
Short circuit current - Isc(A)	15.46	15.53	15.59	15.66

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 80 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NOCT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

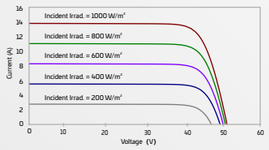
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax)	-0.30% /°C

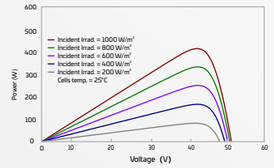
PACKAGING CONFIGURATION##

Number of Modules per Pallet	36
No of pallet	20
No of module, 40ft HC container	720

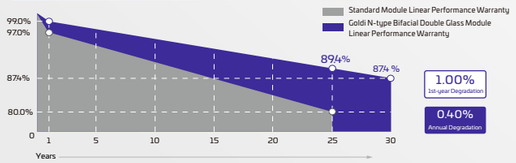
IV CURVE



PV CURVE



LINEAR GRAPH

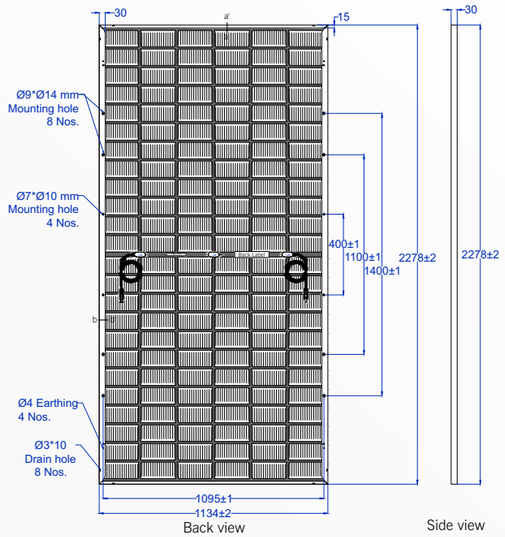


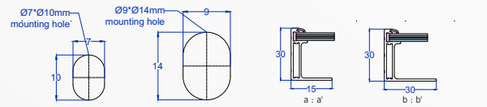
12 Years Product Material & Workmanship | 30 Years Linear Performance Warranty

MECHANICAL SPECIFICATION

Solar cells	144 pcs TOPCon cell technology, Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 2278 mm x (W) 1134 mm x (H) 30 mm"
Weight	~32.5 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	30 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)





"Unspecified dimensions tolerance are according to ISO 2768-1, class m."

PRODUCT CERTIFICATIONS

*we have applied for below certification:
IEC 61215: 2021, IEC 61730: 2021, IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004, IEC 61701, IEC 62716, IEC 60068-2-62, IEC CD 61215-2:2018, UL 61730-1 &2 , IEC 62804, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

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's 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's 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

HELOC® PRO

GS10-T132-GF (515 Wp - 530 Wp)

- High Saving
  Lower LCOE, reduced BOS cost, shorter payback time
- High Efficiency
  Excellent module conversion efficiency of up to 22.30%
- Better Weak Illumination Response
  Higher power output even under low-light environments like on cloudy or foggy days
- ZERO LID (Light Induced Degradation)
  N-Type Solar cell Technology offers No-LeTID & No-LID
- PID Resistance
  Excellent Anti-PID Performance guarantee limited power degradation for mass production
- 10-30% Additional Power Generation
  More than 10-30% additional power gain comparing with the regular modules.
- Wider Applicability
  More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area

MADE IN INDIA

INDUSTRY LEADING PROTECTION

- 12 Years Warranty For Materials And Processing
- 30 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

GOLDI SOLAR

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module			
Module Type	GS10-T132-GF			
Capacity rating – Pmax(Wp)	515	520	525	530
Power Tolerance (W)	0~5			
Module efficiency (%)	21.67	21.88	22.09	22.30
Rated voltage - Vmp(V)	38.61	38.78	38.95	39.12
Rated current - Imp(A)	13.34	13.41	13.48	13.55
Open circuit voltage - Voc(V)	46.92	47.08	47.24	47.40
Short circuit current - Isc(A)	14.05	14.12	14.19	14.26

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	566	572	577	583
Rated voltage - Vmp(V)	38.61	38.78	38.95	39.12
Rated current - Imp(A)	14.67	14.75	14.82	14.90
Open circuit voltage - Voc(V)	46.92	47.08	47.24	47.40
Short circuit current - Isc(A)	15.45	15.53	15.60	15.68

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 80 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

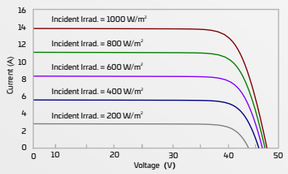
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax)	-0.30% /°C

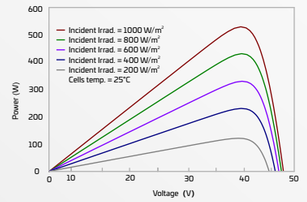
PACKAGING CONFIGURATION##

Number of Modules per Pallet	36
No of pallet	22
No of module, 40ft HC container	792

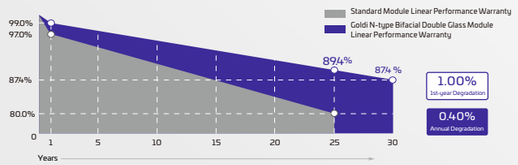
IV CURVE



PV CURVE



LINEAR GRAPH

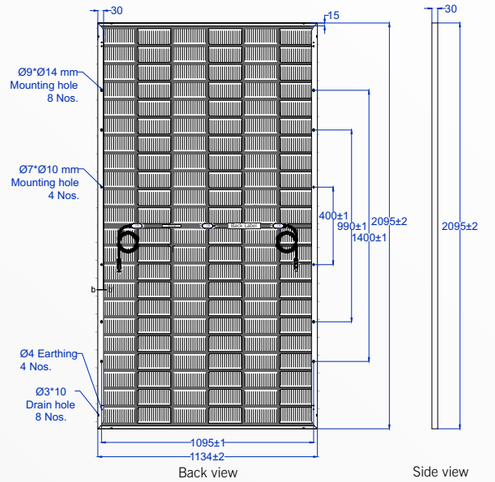


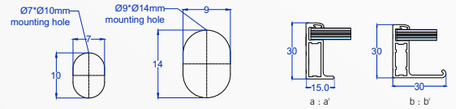
12 Years Product Material & Workmanship | 30 Years Linear Performance Warranty

MECHANICAL SPECIFICATION

Solar cells	132 pcs TOPCon cell technology, Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 2095 mm x (W) 1134 mm x (H) 30 mm"
Weight	~28.5 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	30 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)





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PRODUCT CERTIFICATIONS

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IEC 61215: 2021, IEC 61730: 2021, IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004, IEC 61701, IEC 62716, IEC 60068-2-62, IEC CD 61215-2:2018, UL 61730-1 &2 , IEC 62804, CEC

MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

UTILITY | INDUSTRIAL | AGRICULTURE | RESIDENTIAL | INSTITUTIONAL

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TDS-GS10T132GF-V1.0

GOLDI SOLAR

HELOC® PRO

GS10-T120-GF (465 Wp - 480 Wp)

- High Saving
  Lower LCOE, reduced BOS cost, shorter payback time
- High Efficiency
  Excellent module conversion efficiency of up to 22.16%
- Better Weak Illumination Response
  Higher power output even under low-light environments like on cloudy or foggy days
- ZERO LID (Light Induced Degradation)
  N-Type Solar cell Technology offers No-LeTID & No-LID
- PID Resistance
  Excellent Anti-PID Performance guarantee limited power degradation for mass production
- 10-30% Additional Power Generation
  More than 10-30% additional power gain comparing with the regular modules.
- Wider Applicability
  More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area

MADE IN INDIA

INDUSTRY LEADING PROTECTION

- 12 Years Warranty For Materials And Processing
- 30 Years Warranty For Linear Power Output

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 certified facility

TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module			
Module Type	GS10-T120-GF			
Capacity rating – Pmax(Wp)	465	470	475	480
Power Tolerance (W)	0~5			
Module efficiency (%)	21.46	21.69	21.93	22.16
Rated voltage - Vmp(V)	34.99	35.11	35.24	35.38
Rated current - Imp(A)	13.29	13.39	1348	13.57
Open circuit voltage - Voc(V)	42.38	42.52	42.66	42.80
Short circuit current - Isc(A)	14.03	14.12	14.20	14.29

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	511	517	522	528
Rated voltage - Vmp(V)	34.99	35.11	35.24	35.38
Rated current - Imp(A)	14.61	14.72	14.82	14.92
Open circuit voltage - Voc(V)	42.38	42.52	42.66	42.80
Short circuit current - Isc(A)	15.43	15.53	15.62	15.71

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 80 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

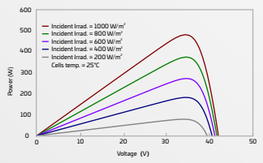
TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax)	-0.30% /°C

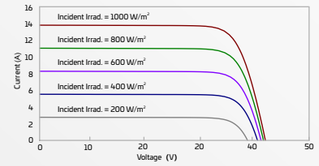
PACKAGING CONFIGURATION##

Number of Modules per Pallet	36
No of pallet	24
No of module, 40ft HC container	864

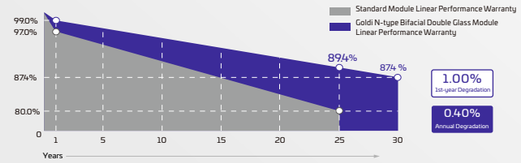
IV CURVE



PV CURVE



LINEAR GRAPH

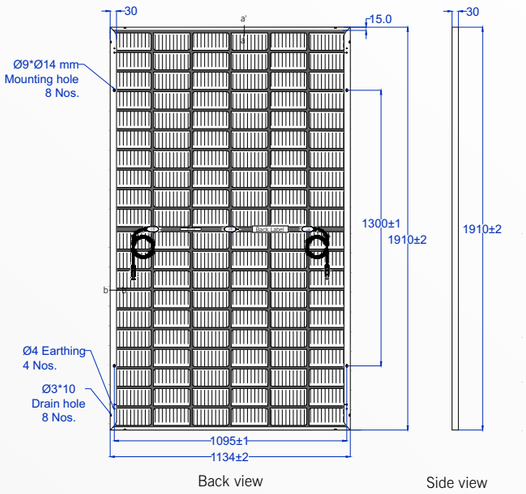


12 Years Product Material & Workmanship | 30 Years Linear Performance Warranty

MECHANICAL SPECIFICATION

Solar cells	120 pcs TOPCon cell technology, Multi BB
Encapsulation	PID & UV resistance
Frame	Silver Anodized Aluminium Alloy
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass
Back Glass	2.0 mm, Heat Strengthened Glass
Dimensions	(L) 1910 mm x (W) 1134 mm x (H) 30 mm"
Weight	~28 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	30 A
Cable	4 mm², Solar cable 400mm/1400mm length or Customized length
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



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MANAGEMENT SYSTEM CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

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GOLDI SOLAR

HELOC® PRO

GS10-T108-GF (415 Wp - 435 Wp)

- High Saving
  Lower LCOE, reduced BOS cost, shorter payback time
- High Efficiency
  Excellent module conversion efficiency of up to 22.17%
- Better Weak Illumination Response
  Higher power output even under low-light environments like on cloudy or foggy days
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TECHNICAL DATA

Electrical Parameter at STC	Bifacial Monocrystalline Module				
Module Type	GS10-T108-GF				
Capacity rating – Pmax(Wp)	415	420	425	430	435
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	21.15	21.40	21.66	21.91	22.17
Rated voltage - Vmp(V)	31.31	31.50	31.69	31.87	32.06
Rated current - Imp(A)	13.26	13.34	13.42	13.50	13.58
Open circuit voltage - Voc(V)	37.91	38.10	38.29	38.48	38.67
Short circuit current - Isc(A)	14.00	14.08	14.16	14.24	14.32

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

Electrical Characteristics with 10% rear side power gain#

Capacity rating – Pmax(Wp)	456	462	467	473	479
Rated voltage - Vmp(V)	31.31	31.50	31.69	31.87	32.06
Rated current - Imp(A)	14.59	14.67	14.76	14.85	14.94
Open circuit voltage - Voc(V)	37.91	38.10	38.29	38.48	38.67
Short circuit current - Isc(A)	15.40	15.49	15.58	15.66	15.75

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and reflectivity of ground.
Bi-Faciality Factor : 80 ± 5 %

PERMISSIBLE OPERATING CONDITIONS

Temperature range	-40°C to + 85°C
Maximum system voltage	1500 VDC
NMOT	45± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

TEMPERATURE COEFFICIENTS (TC)

Temperature Coefficient (Voc)	-0.25% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax)	-0.30% /°C

PACKAGING CONFIGURATION##

Number of Modules per Pallet	36
No of pallet	26
No of module, 40ft HC container	936

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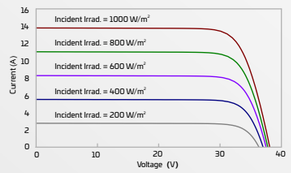
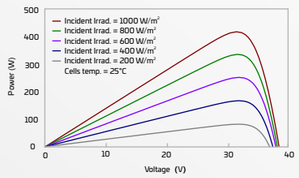


PV CURVE



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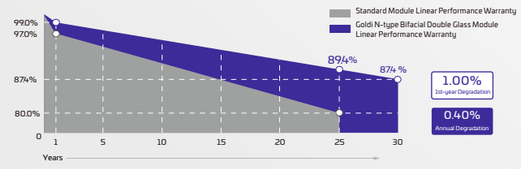

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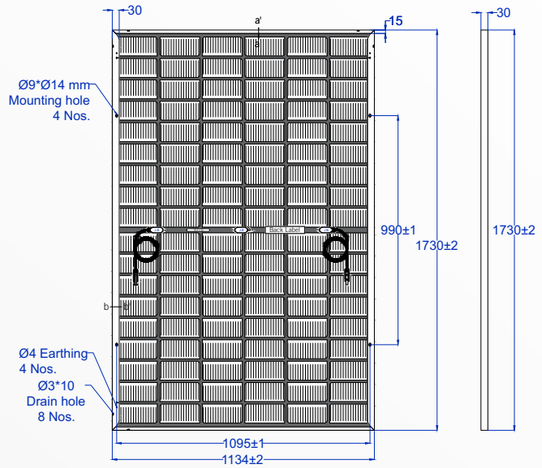

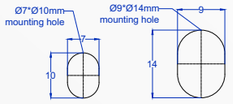

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Vr. April 2024