



HELOC[®] PRO

GS10-M120-WF
(435 Wp - 455 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 21.03%



IP68 Junction Box

High waterproof level



Low-light Performance

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



INDUSTRY LEADING PROTECTION



12 Years Warranty For
Materials And Processing



25 Years Warranty For
Linear Power Output

BEST IN Grade Quality Class Results



TECHNICAL DATA

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

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

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

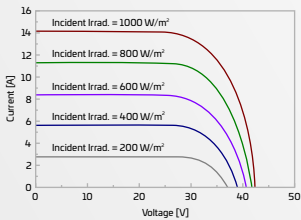
TEMPERATURE COEFFICIENTS (TC)

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

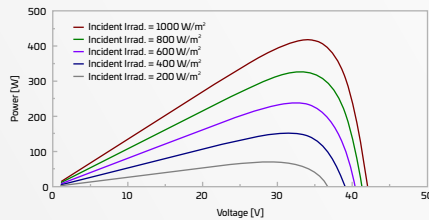
PACKAGING CONFIGURATION^{##}

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

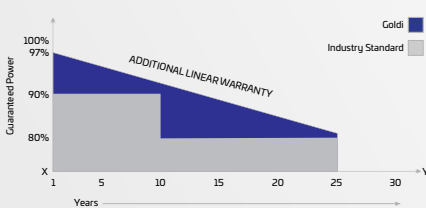
IV CURVE



PV CURVE



LINEAR GRAPH

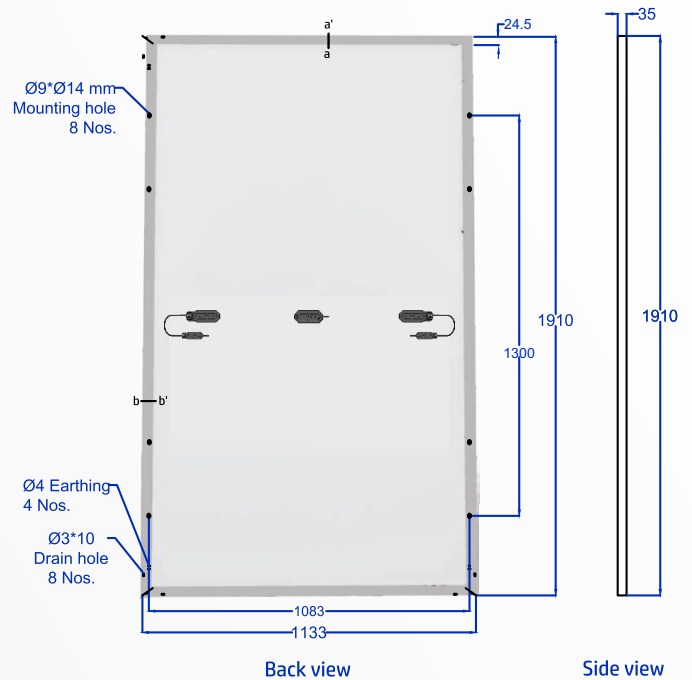


Power Degradation: <2% for First Year
<0.55% /Year in 2-25 Years

MECHANICAL SPECIFICATION

Solar cells	120 pcs monocrystalline Silicon(PERC), Multi BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
Backside	UV protected reflective backsheets
Frame	Silver Anodized Aluminium Alloy
Front glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 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	20 A
Cable	Solar cable 400 mm length, 4 mm ²
Connectors	MC4 compatible connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

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
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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HELOC[®] PRO

GS10-M156-WF
(580 Wp - 600 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 21.50%



IP68 Junction Box

High waterproof level



Low-light Performance

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



INDUSTRY LEADING PROTECTION

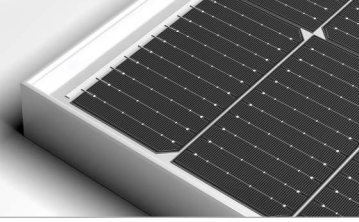


12 Years Warranty For
Materials And Processing



25 Years Warranty For
Linear Power Output

BEST IN Grade Quality Class Results



TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module				
Module Type	GS10-M156-WF				
Capacity rating – Pmax(Wp)	580	585	590	595	600
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.70	20.90	21.10	21.30	21.50
Rated voltage - Vmp(V)	44.97	45.11	45.25	45.39	45.53
Rated current - Imp(A)	12.90	12.97	13.04	13.11	13.18
Open circuit voltage - Voc(V)	53.59	53.73	53.87	54.01	54.15
Short circuit current - Isc(A)	13.79	13.86	13.93	14.00	14.07

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	Monocrystalline Module				
Capacity rating – Pmax(Wp)	432	436	439	443	447
Rated voltage - Vmp(V)	41.0	42.1	42.2	42.3	42.5
Rated current - Imp(A)	10.30	10.35	10.41	10.46	10.52
Open circuit voltage - Voc(V)	50.4	50.6	50.7	50.8	51.0
Short circuit current - Isc(A)	11.12	11.17	11.23	11.28	11.34

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	43± 2°C
Hail resistance	Max. diameter of 25 mm with velocity 23 m/s

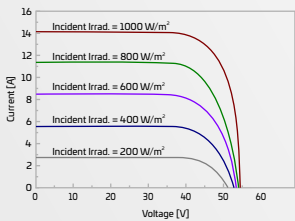
TEMPERATURE COEFFICIENTS (TC)

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

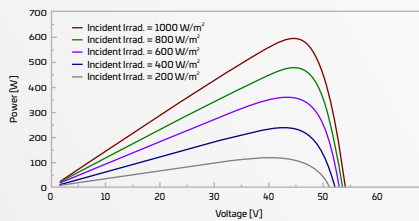
PACKAGING CONFIGURATION###

Number of Modules per Pallet	31
No of pallet	16
No of module, 40ft HC container	496

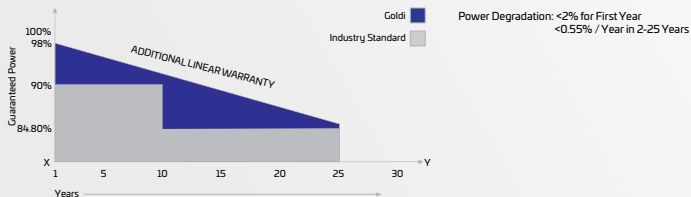
IV CURVE



PV CURVE



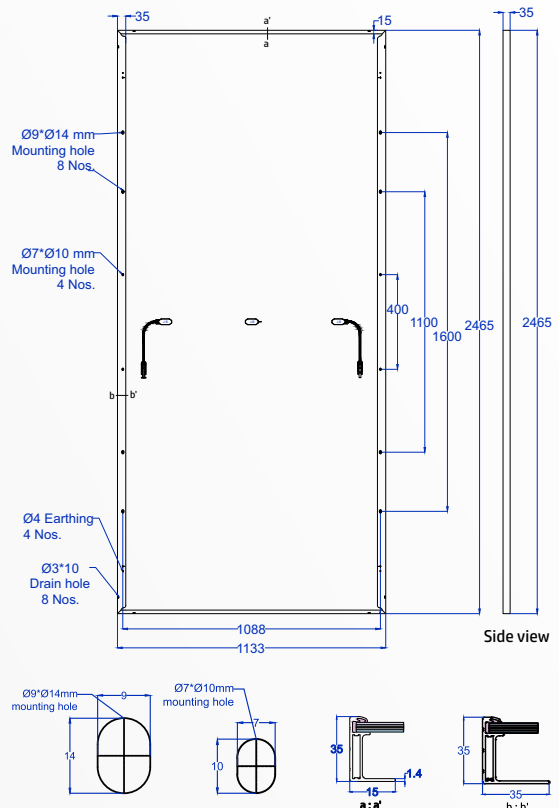
LINEAR GRAPH



MECHANICAL SPECIFICATION

Solar cells	156 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
Backside	UV protected reflective backsheet
Frame	Silver Anodized Aluminium Alloy
Solar Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2465 mm x (W) 1133 mm x (H) 35 mm
Weight	~31.5 Kg
J-box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25 A
Cable	4 mm ² , Solar cable 400 mm 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)



PRODUCT CERTIFICATIONS

*We have applied for below certifications:

IS 14286:2010/IEC 61215:2005, IS/IEC 61730-1 & 2: 2004
IEC 62804, IEC 61853, IEC 60904

MANAGEMENT SYSTEM CERTIFICATIONS



ISO 9001
ISO 14001
ISO 45001

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HELOC[®] PRO

GS10-M144-BF
(525 Wp - 560 Wp)



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PID Resistance

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High Efficiency

Excellent module conversion efficiency of up to 21.70%



Ip68 Junction Box

High waterproof level



Low-light Performance

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INDUSTRY LEADING PROTECTION

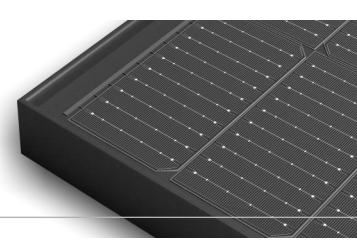


12 Years Warranty For
Materials And Processing



25 Years Warranty For
Linear Power Output

BEST IN Grade Quality Class Results



TECHNICAL DATA

Electrical Parameter at STC	Monocrystalline Module							
Module Type	GS10-M144-BF							
Capacity rating – Pmax(Wp)	525	530	535	540	545	550	555	560
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Module efficiency (%)	20.33	20.53	20.73	20.92	21.12	21.31	21.50	21.70
Rated voltage - Vmp(V)	41.28	41.51	41.75	41.97	42.20	42.42	42.64	42.89
Rated current - Imp(A)	12.70	12.75	12.80	12.85	12.90	12.94	12.99	13.05
Open circuit voltage - Voc(V)	50.02	50.21	50.40	50.61	50.80	50.90	51.18	51.37
Short circuit current - Isc(A)	13.20	13.24	13.28	13.33	13.36	13.39	13.44	13.49

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

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

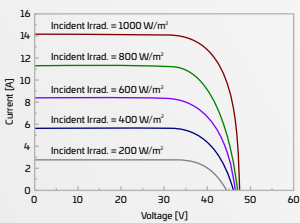
TEMPERATURE COEFFICIENTS (TC)

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

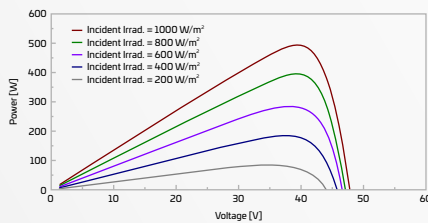
PACKAGING CONFIGURATION^{###}

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

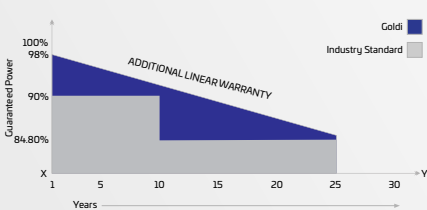
IV CURVE



PV CURVE



LINEAR GRAPH

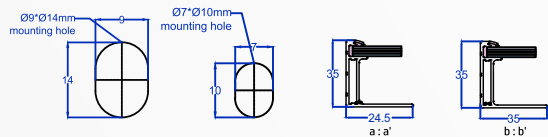
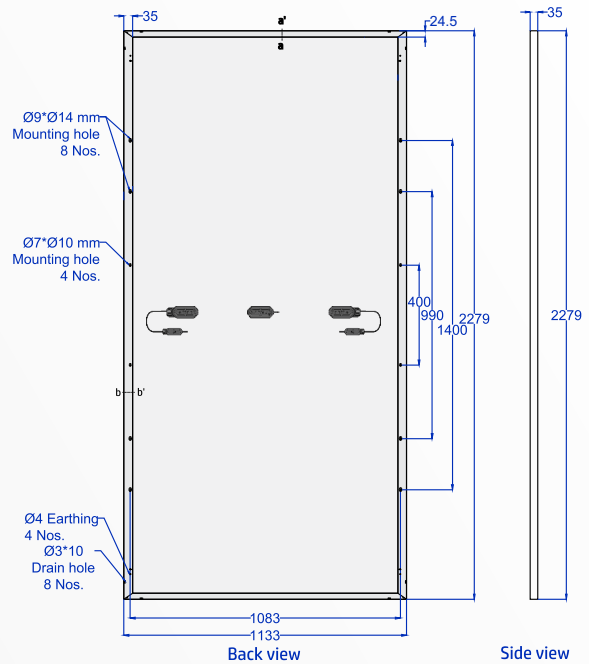


Power Degradation: <2% for First Year
<0.55% /Year in 2-25 Years

MECHANICAL SPECIFICATION

Solar cells	144 pcs monocrystalline Silicon (PERC), Multi BB
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate)
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	Solar cable 400 mm length, 4 mm ²
Connectors	MC4 compatible connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Surface load	Snow load 5400 Pa, Wind load 2400 Pa

DRAWING (MEASUREMENTS ARE IN MM)



PRODUCT CERTIFICATIONS

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

MANAGEMENT SYSTEM CERTIFICATIONS



ISO 9001
ISO 14001
ISO 45001

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