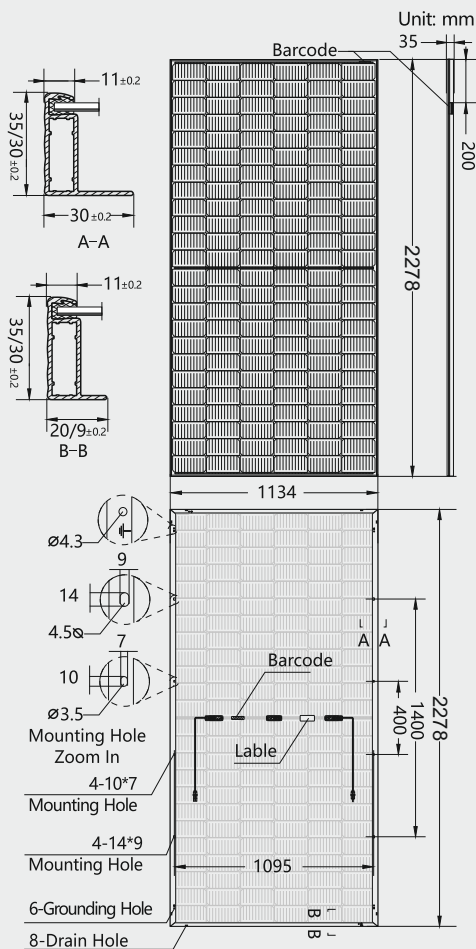
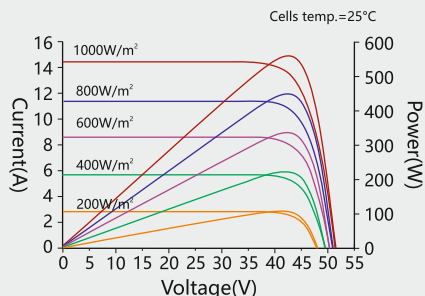


Dimensions of PV Module

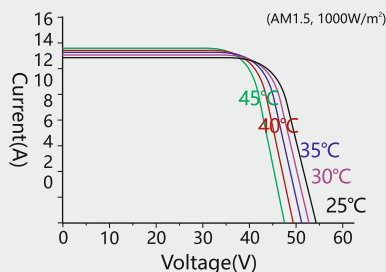


GS-600W-182M/144TB

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Model Number	GS-570W-182M/144TB	GS-575W-182M/144TB	GS-580W-182M/144TB	GS-585W-182M/144TB	GS-590W-182M/144TB	GS-600W-182M/144TB
Rated Power in Watts-Pmax(Wp)	570	575	580	585	590	600
Open Circuit Voltage-Voc(V)	51.07	51.27	51.47	51.67	51.87	53.73
Short Circuit Current-Isc(A)	14.25	14.31	14.37	14.43	14.49	14.53
Max. Power Voltage-Vmpp(V)	42.29	42.44	42.59	42.74	42.89	44.53
Max. Power Current-Impp(A)	13.48	13.55	13.62	13.69	13.76	13.80
Module Efficiency(%)	22.06	22.25	22.44	22.64	22.83	23.47
Maximum system voltage	1500V DC					
Fuse Rating(A)	30					
Temperature coefficient Pmax	-0.29%/°C					
Temperature coefficient Isc	0.045%/°C					
Temperature coefficient Voc	-0.25%/°C					
Refer. Bifacial Factor	80±5%					

*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Model Number	GS-570W-182M/144TB	GS-575W-182M/144TB	GS-580W-182M/144TB	GS-585W-182M/144TB	GS-590W-182M/144TB	GS-600W-182M/144TB
Rated Power in Watts-Pmax(Wp)	429	432	436	440	444	453
Open Circuit Voltage-Voc(V)	48.51	48.70	48.89	49.08	49.27	50.00
Short Circuit Current-Isc(A)	11.50	11.55	11.60	11.65	11.70	11.80
Max. Power Voltage-Vmpp(V)	39.65	39.78	39.87	39.99	40.10	40.30
Max. Power Current-Impp(A)	10.81	10.87	10.94	11.00	11.06	11.18
Power tolerance	0~+3%					
NOCT	45°C±2°C					
Operating Temperature	-40°C~85°C					

*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

	Pmax(Wp)	599	604	609	614	620	630
5%	Efficiency(%)	23.16	23.36	23.56	23.77	23.97	24.90
15%	Pmax(Wp)	656	661	667	673	679	690
	Efficiency(%)	23.16	23.36	23.56	23.77	23.97	24.90
25%	Pmax(Wp)	713	719	725	731	738	750
	Efficiency(%)	27.58	27.81	28.05	28.30	28.54	29.50

The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc) and albedo of the ground.

MECHANICAL CHARACTERISTICS

Number of cells	144pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182×91	Size of module(mm)	2278×1134×35
Type of cell	N-TOPCon Mono	Weight(kg)	34.0/32.8
Thickness of glass(mm)	3.2	Cables/connectors	4.0mm ² , MC4 compatible
Junction box	IP68	Length of Cabel	+300mm/-300mm(connector included)

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	2300×1120×1260	2300×1120×1260
Box Gross Weight (kg)	1084	1210
Number of Modules Per 40ft (HQ) Container	620	720
Number of Pallets Per 40ft (HQ) Container	20	20

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
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ULTRA S_{series}

GS-550W-182M/144B

Bifacial Monocrystalline PERC Module

2278×1134×35/30 **182×91**

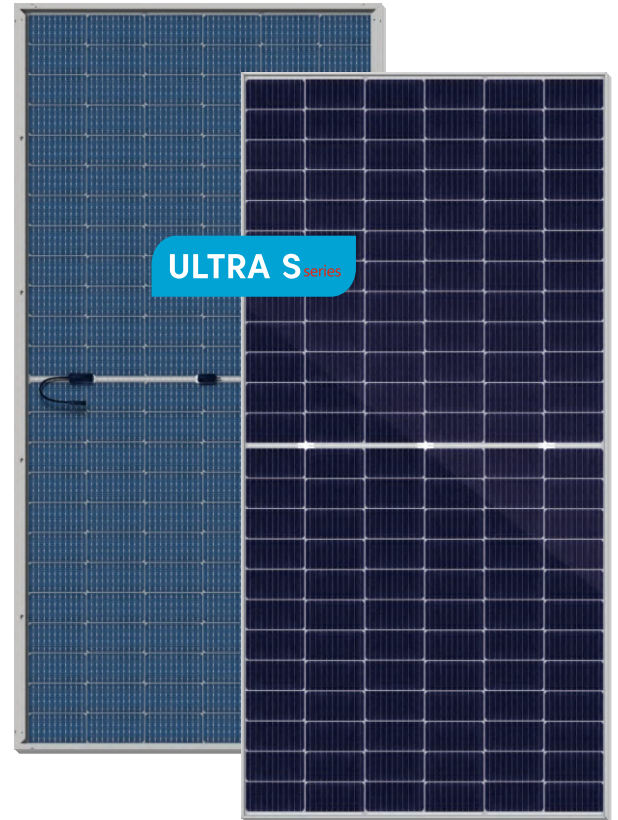
Dimensions (mm) Cell size (mm)

144 CELL **525-550Wp**








Mono PERC Power output

1500V DC **21.28%**

Max. system voltage Max. efficiency



KEY FEATURES

- 
Higher Power Output
 Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.
- 
Most Advanced Production Technologies
 Optimize module current profile, improve system-side power generation.
- 
Multi Busbar Technology
 By improving optical utilization rate, power increases by 2~3% and efficiency increases by 0.4~0.6%.
- 
PID Resistance
 Excellent Anti-PID performance guarantee via optimized mass-production process and material control.
- 
Low-light Performance
 Excellent performance in low light.
- 
Enhanced Mechanical Load
 Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).
- 
Durability Against Extreme Environmental Conditions
 High salt mist and ammonia resistance certified by TUV NORD.
- 
EL Full Inspection
 Dual-stage 100% EL Inspection.



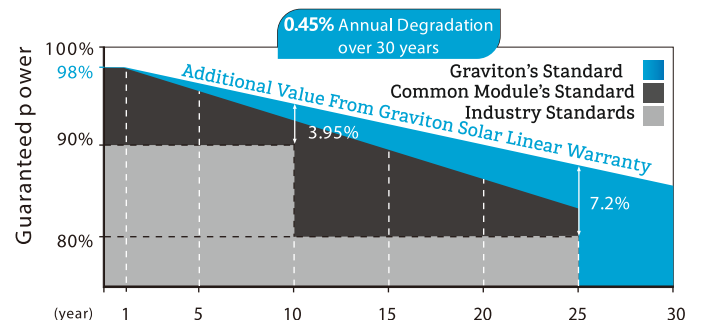
Comprehensive Products and System Certificates

- IEC61215/IEC61730/IEC61701/IEC62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupational Health and Safety Management System

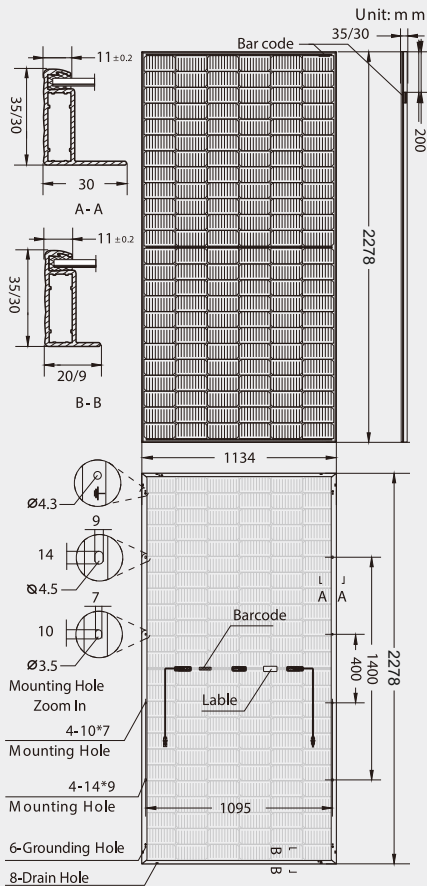


LINEAR PERFORMANCE WARRANTY

12-year product warranty / 30-year linear power warranty

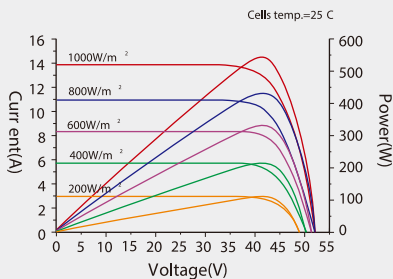


Dimensions of PV Module

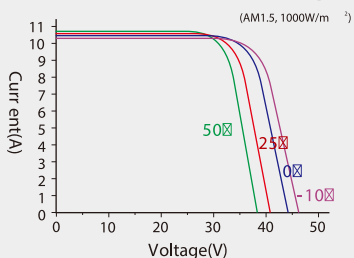


GS-550W-182M/144B

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL DATA(STC)

Model Number	GS-525W-182M/144B	GS-530W-182M/144B	GS-535W-182M/144B	GS-540W-182M/144B	GS-545W-182M/144B	GS-550W-182M/144B
Rated Power in Watts-Pmax(Wp)	525	530	535	540	545	550
Open Circuit Voltage-Voc(V)	49.12	49.32	49.52	49.69	49.90	50.10
Short Circuit Current-Isc(A)	13.63	13.70	13.78	13.86	13.90	13.95
Max. Power Voltage-Vmpp(V)	41.26	41.41	41.55	41.72	41.90	42.10
Max. Power Current-Impp(A)	12.73	12.81	12.88	12.95	13.02	13.07
Module Efficiency(%)	20.31	20.51	20.70	20.89	21.09	21.28

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.

Electrical characteristics with different rear side power gain (reference to 550Wp front)

Bifacial Gain *	Pmax/W	Voc/V	Isc/A	Vmpp/V	Impp/A
5%	572	49.90	14.60	41.90	13.67
10%	600	49.90	15.29	41.90	14.32
15%	627	49.90	15.99	41.90	14.97
20%	654	49.90	16.68	41.90	15.61
25%	681	49.90	17.38	41.90	16.28
30%	708	49.90	18.07	41.90	16.93

* Bifacial Gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Size	182mm×91mm
Cell Configuration	144 Cells (6×12+6×12)
Module Dimensions	2278×1134×35/30mm
Weight	34.0/32.0kg
Front Glass	High Transmission, Low Iron, Tempered Arc Glass 3.2 mm
Frame	Anodized Aluminium Alloy Type 6005 T6, Silver Color
J-box	IP68, 1500V DC, 3 Diodes
Cables	4.0mm ² , (+) 300mm, (-) 200mm (connector Included)
Connector	MC4-compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C ~ +85°C
Max. System Voltage	1500V DC
Max. Series Fuse Rating	25A

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	2300×1120×1260	2300×1120×1260
Box Gross Weight (kg)	1084	1180
Number of Modules Per 40ft (HQ) Container	620	720
Number of Pallets Per 40ft (HQ) Container	20	20

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