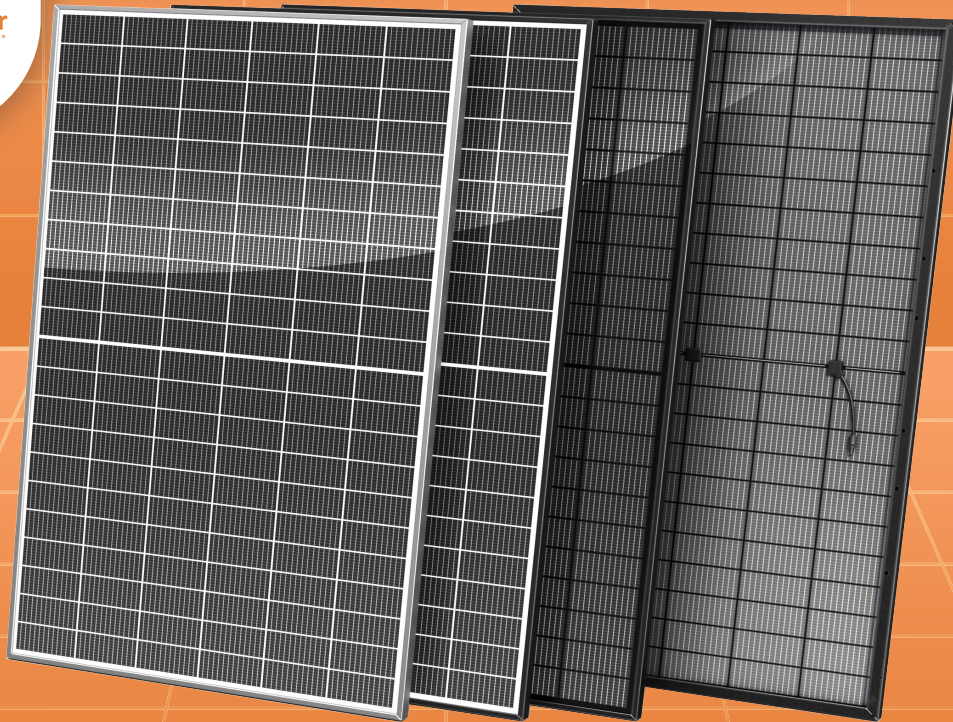


STANDARD SOLAR PANELS

GermanSolar's standard solar panels are high efficiency, convenient, and easy to use



BIFACIAL HELIOSLINE MAX G12 132 MONO CELL SOLAR PANELS German Solar Asia PTE. Ltd.

GSA-N18/132HG695W 700W 705W 710W 715W

GermanSolar is a specialist in customization, introducing colored glass, frames, and back-sheet material and shapes to aesthetically match your ideas with the prospective application. With innovative technology and design, GermanSolar offers high quality modules with enhanced aesthetic appearance for building structures and facades. By providing outstanding customization options, GermanSolar supports your required project needs with colored and shaped panels of your choice, and consults with you in choosing the right size, thickness, shape, and color to complement the design of your application and your building.

FEATURES

 Best price-performance ratio	 30 years 30-year linear performance warranty	 EL tested and micro cracks inspected	 Fully automated production line with German quality engineering and design standards
 Better performance in diffused sunlight and high temperature	 Withstands Rear loads up to 2400Pa /Front loads up to 5400Pa	 15 years 15-year limited product warranty	 Power Binning Tolerance: 0 to +5 W



IEC 61215-1:2021/EN IEC 61215-1:2021;
IEC 61215-1-1:2021/EN IEC 61215-1-1:2021;
IEC 61215-2:2021/EN IEC 61215-2:2021;
IEC 61730-1:2023;
IEC 61730-2:2023.

STANDARD SOLAR PANELS

ELECTRICAL DATA

Model	GSA-N18/132HG65W	GSA-N18/132HG700W	GSA-N18/132HG705W	GSA-N18/132HG710W	GSA-N18/132HG715W
Power (P _{max}) * (W) tolerance ±3%	695	700	705	710	715
Open Circuit Voltage (V _{oc}) (V) tolerance ±3%	48.10	48.30	48.50	48.70	48.90
Short Circuit Current (I _{sc}) (A) tolerance ±4%	18.28	18.32	18.36	18.40	18.44
Max. Power Voltage (V _{mpp}) (V)	40.30	40.50	40.70	40.90	41.10
Max. Power Current (I _{mp}) (A)	17.24	17.28	17.32	17.36	17.40
aBSI (A) tolerance ±4%	22.67	22.72	22.77	22.82	22.87
Module Efficiency (%)	22.37%	22.53%	22.70%	22.86%	23.02%
P _{max} Temperature Coefficient γ	-0.24 % / °C				
I _{sc} Temperature Coefficient α	+0.04 % / °C				
V _{oc} Temperature Coefficient β	-0.24 % / °C				
Module(T ₉₈)Max	70 °C				

*STC: Irradiance 1000 W / m², cell temperature 25 °C, AM = 1.5, Tolerance of P_{max} is within + / - 3 %.

BNPI* *

Power (P _{max}) * (W) tolerance ±3%	760	765	770	775	780
Open Circuit Voltage (V _{oc}) (V) tolerance ±3%	48.1	48.3	48.5	48.7	48.9
Short Circuit Current (I _{sc}) (A) tolerance ±4%	20.11	20.15	20.2	20.24	20.28
Max. Power Voltage (V _{mpp}) (V)	40.3	40.5	40.7	40.9	41.1
Max. Power Current (I _{mp}) (A)	18.86	18.89	18.92	18.95	18.98
NMOT (Nominal Module Operating Temperature) (°C)	41 ± 3				
Bifaciality coefficient with tolerance	φI _{sc} =80% ±5%, φV _{oc} =100% ±5%, φP _{max} =80% ±5%				

**BNPI: Front side irradiation 1000 W / m², back side reflection irradiation 135 W / m², AM = 1.5, ambient temperature 25 °C.

Performance at low irradiance* **

Power (P _{max}) * (W) tolerance ±3%	132.95	133.90	134.86	135.82	136.77
Open Circuit Voltage (V _{oc}) (V) tolerance ±3%	45.43	45.62	45.81	45.99	46.18
Short Circuit Current (I _{sc}) (A) tolerance ±4%	3.60	3.66	3.66	3.67	3.68
Max. Power Voltage (V _{mpp}) (V)	38.94	39.14	39.33	39.52	39.72
Max. Power Current (I _{mp}) (A)	3.41	3.42	3.43	3.44	3.44

***low irradiance: Data corrected to a 25°C cell temperature and 200 W/m²

MECHANICAL DATA

Dimensions (mm)	2384 × 1303 × 33
Weight (kg)	37.9
Solar Cells (mm)	N-TOPCon Mono 210 × 105
Front Glass	2.0 mm glass
Back Glass	2.0 mm glass
Frame	Anodised aluminum alloy
Junction Box	IP68, 3 diodes
Cables	4 mm ² , 300 mm in length, length can be customized / UV resistant
Connectors	RHC2, by Zhejiang Renhe Photovoltaic Technology

PACKAGING

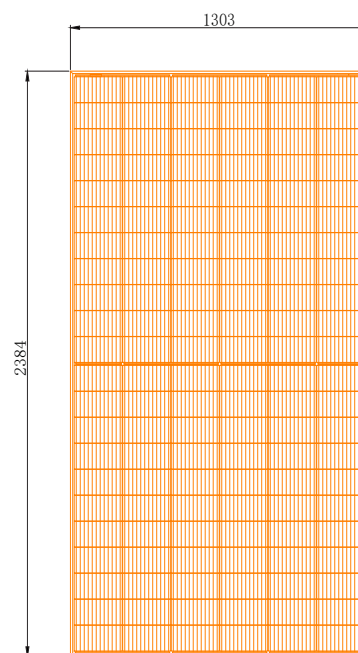
Modules Per Pallet (pcs)	33
Pallets Per Container (pcs)	18
Module quantity per 40' container (pcs)	594

OPERATING CONDITIONS

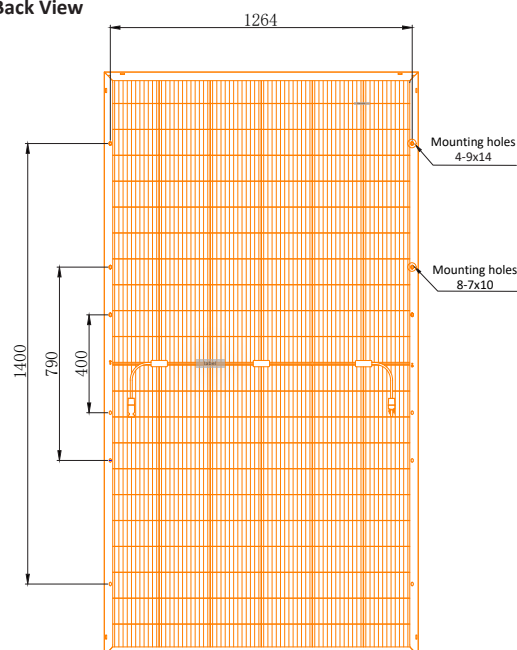
Max. System Voltage (V)	1500
Fire safety class	Class C according to ANSI/UL 1703-2018(as per ANSI/UL 790-2018)
Operating Temperature (°C)	-40 ~ +85
Maximum overcurrent protection rating(A)	35
Front Side Maximum Static Loading/Rear Side Maximum Static Loading (Pa)	5400 / 2400

Design (mm)

Front View

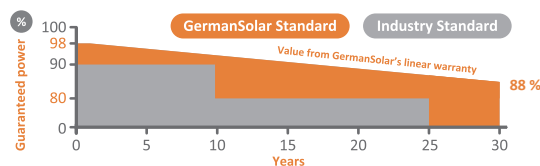


Back View



LINEAR PERFORMANCE WARRANTY

15-Year Product Warranty | 30-Year Performance Warranty



Manufactured in China

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