STANDARD SOLAR PANELS

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

GermanSolar
The Partner For Your Solar Lifetime!®

POWERLINE

POLY 60 CELL SOLAR PANELS PANELS

GSP-275W 280W 285W 290W 295W

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
- Positive power of up to +5.00 Wp (0 ~ 5.00W)
- 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
- High ammonia & salt mist resistant certified, and PID-free
- Withstands wind loads up to 2400Pa / heavy snow loads up to 5400Pa
- 12 years — 12-year limited product warranty
- 25 years — 25-year linear performance warranty

ISO 45001
ISO 26000
ISO 19600

IEC61215:
CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES – DESIGN QUALIFICATION AND TYPE APPROVAL
IEC61730:
Photovoltaic (PV) module safety qualification

EN IEC 61730:
PHOTOVOLTAIC (PV) MODULE SAFETY QUALIFICATION
2014/35/EU:
THE LOW VOLTAGE DIRECTIVE

ELECTRICAL DATA

Nominal Max. Power (Pmax)* (W)	275	280	285	290	295
Open Circuit Voltage (Voc) (V)	38.46	38.65	38.84	39.03	39.22
Short Circuit Current (Isc) (A)	9.00	9.10	9.20	9.31	9.41
Max. Power Voltage (Vmpp) (V)	32.52	32.73	32.94	33.15	33.36
Max. Power Current (Impp) (A)	8.46	8.55	8.65	8.75	8.84
Module Efficiency (%)	16.48	16.78	17.08	17.38	17.68
Power Tolerance (%)	± 3				
Power Temperature Coeffcient γ	-0.40 % / °C				
Current Temperature Coeffcient α	+0.05 % / °C				
Voltage Temperature Coeffcient β	-0.30 % / °C				

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

NOCT **

Nominal Max. Power (Pmax)* (W)	208	212	215	219	223
Open Circuit Voltage (Voc) (V)	36.46	36.62	36.78	36.94	37.10
Short Circuit Current (Isc) (A)	7.25	7.33	7.41	7.49	7.57
Max. Power Voltage (Vmpp) (V)	30.52	30.73	30.94	31.15	31.36
Max. Power Current (Impp) (A)	6.81	6.89	6.96	7.04	7.11
NMOT (Nominal Module Operating Temperature) (°C)	41 ± 3				

* NOCT: Irradiance at 800 W / m², ambient temperature 20 °C, Wind Speed 1 m / s. AM = 1.5.

MECHANICAL DATA

Dimensions (mm)	1665 × 1002 × 30
Weight (kg)	18
Solar Cells (mm)	Poly 157 × 157
Front Glass	3.2 mm glass
Backsheet	White or black
Frame	Anodised aluminum alloy
Junction Box	IP68, 3 diodes
Cables	4 mm², 900 mm in length, length can be customized / UV resistant
Connectors	MC4 original / MC4 compatible

PACKAGING

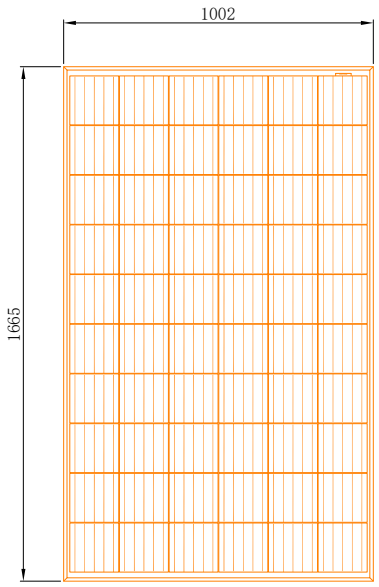
Modules Per Pallet (pcs)	36
Pallets Per Container (pcs)	26
Module quantity per 40' container (pcs)	936

OPERATING CONDITIONS

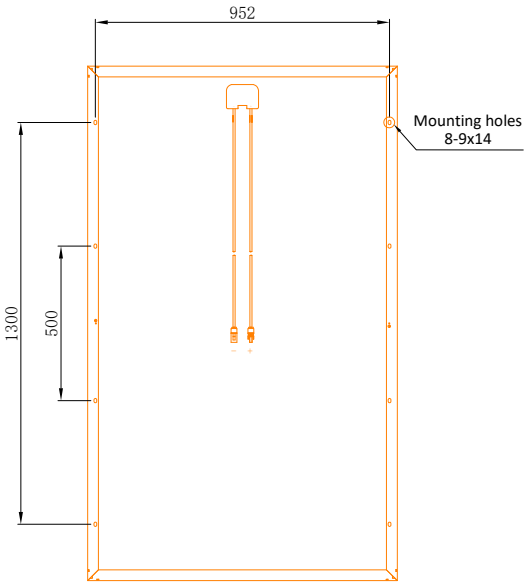
Max. System Voltage (V)	1500
Operating Temperature (°C)	-40 ~ +85
Max. Series Fuse Rating (A)	30
Front Side Maximum Static Loading/ Rear Side Maximum Static Loading (Pa)	5400 / 2400

Design (mm)

Front View

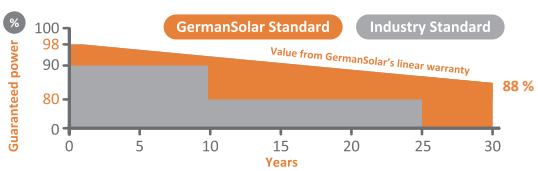


Back View



LINEAR PERFORMANCE WARRANTY

12-Year Product Warranty | 25-Year Performance Warranty



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