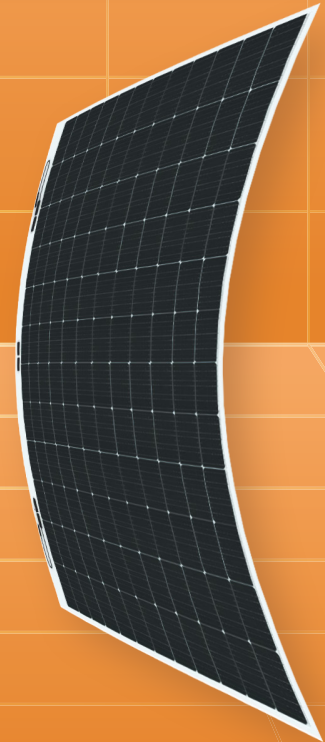


STANDARD SOLAR PANELS

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



GermanSolar
The Partner For Your Solar Lifetime!



SEMI-FLEX TITANLINE MAX M10 144 MONO CELL SOLAR PANELS

GSM-550W-HCSF GSM-555W-HCSF GSM-560W-HCSF

Say goodbye to traditional heavy solar panels. GermanSolar continues to innovate with the SEMI-FLEX TITANLINE MAX, specially designed for easy and versatile installation. Ultra-thin and lightweight, it easily conforms to curves and unique surfaces, making installation effortless and stress-free.

FEATURES



Flexible
radius < 0.3m



Lightweight
2.9 Kg/m²



Hail test:
IEC 61215-2:2021:
Φ25mm, 23m/s



Withstands wind
loads up to 2400Pa
/ heavy snow loads
up to 2400Pa



Sealing with PIB:
Stronger moisture
resistance, greater air
impermeability to extend
module lifespan.



Fully automated
production line with
German quality
engineering and
design standards



EL tested and micro
cracks inspected



12-year limited
product warranty



25-year linear
performance
warranty



ISO 9001
ISO 14001
ISO 45001
ISO 26000
ISO 19600



IEC 61730-1
IEC 61730-2, IEC 61215-1,
IEC 61215-2 and IEC 61215-1-1



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

STANDARD SOLAR PANELS

ELECTRICAL DATA *

Nominal Max. Power (P _{max}) * (W)	550	555	560
Open Circuit Voltage (V _{oc}) (V)	52.96	53.01	53.05
Short Circuit Current (I _{sc}) (A)	12.95	12.92	12.96
Max. Power Voltage (V _{mpp}) (V)	45.19	45.25	45.29
Max. Power Current (I _{mp}) (A)	12.18	12.27	12.37
Module Efficiency (%)	20.63	20.82	21.00
Power Tolerance (%)	± 3		
Power Temperature Coefficient γ	-0.29 % / °C		
Current Temperature Coefficient α	+0.045 % / °C		
Voltage Temperature Coefficient β	-0.26 % / °C		

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

NMOT * *

Nominal Max. Power (P _{max}) * (W)	414.15	417.92	421.68
Open Circuit Voltage (V _{oc}) (V)	50.31	50.36	50.40
Short Circuit Current (I _{sc}) (A)	10.40	10.43	10.46
Max. Power Voltage (V _{mpp}) (V)	42.34	42.40	42.44
Max. Power Current (I _{mp}) (A)	9.79	9.87	9.95
NMOT (Nominal Module Operating Temperature) (°C)	41°C ± 3°C		

**NMOT: Front side irradiation 800W / m², back side reflection irradiation 135 W / m², AM = 1.5, ambient temperature 25 °C.

MECHANICAL DATA

Dimensions (mm)	2240 x 1190 x 1.8
Weight (kg)	7.6
Solar Cells (mm)	Topcon 182.2 × 183.75
Junction Box	IP68, 6 diodes
Cables	400 mm in length (customizable) / UV resistant
Connectors	MC4 original / MC4 compatible

PACKAGING

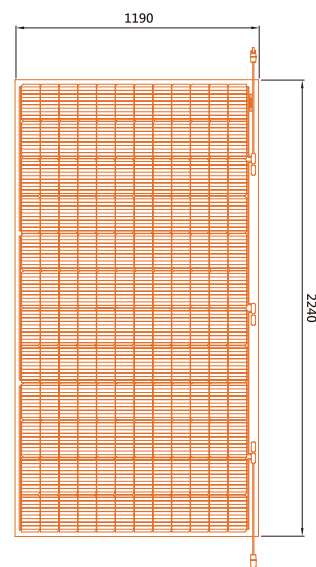
Panels Per Pallet (pcs)	70
Pallets Per Container (pcs)	18
Panels quantity per 40' container (pcs)	1260

OPERATING CONDITIONS

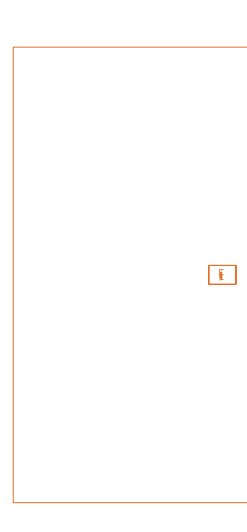
Max. System Voltage (V)	1500
Operating Temperature (°C)	-40°C ~ +85°C
Max. Series Fuse Rating (A)	30
Front Side Maximum Static Loading/ Rear Side Maximum Static Loading (Pa)	2400 / 2400

Design (mm)

Front View



Back View



LINEAR PERFORMANCE WARRANTY

12 Years Product Warranty | 25 Years Performance Warranty

