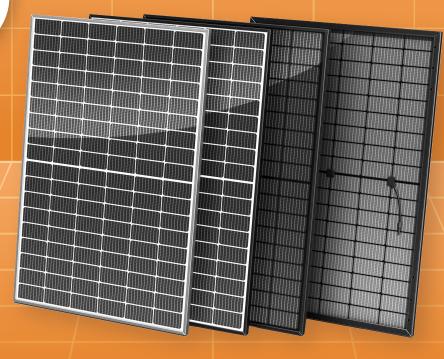


STANDARD SOLAR PANEL

GermanSolar's Standard Solar Panel is High efficiency, convenient and easy to use



BIFACIAL TITANLINE MONO M10 108 CELL SOLAR PANEL

GSM - 410W 415W 420W 425W 430W 435W 440W

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 solar panels 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 you in choosing the right size, thickness, shape, and color to compliment the design of your application and your building.



😞 GermanSolar

ELECTRICAL L	DATA						
Nominal Max. Power (Pmax)* (W)	410	415	420	425	430	435	440
Open Circuit Voltage (Voc) (V)	37.23	37.42	37.61	37.80	37.99	38.18	38.37
Short Circuit Current (Isc) (A)	13.98	14.05	14.13	14.20	14.27	14.34	14.42
Max. Power Voltage (Vmpp) (V)	31.21	31.42	31.63	31.84	32.05	32.26	32.47
Max. Power Current (Impp) (A)	13.14	13.21	13.28	13.35	13.42	13.48	13.55
Module Efficiency (%)	21.00	21.25	21.51	21.76	22.02	22.28	22.53
Power Tolerance				0~+5W			
Temperature Coefficient (Pmax)	-0.26% / °C						
Temperature Coefficient (Isc)			-	+0.04% / °(2		
Temperature Coefficient (Voc)				-0.24% / °(:		

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

BSTC *	**						
Nominal Max. Power (Pmax)* (W)	440	445	450	455	460	465	470
Open Circuit Voltage (Voc) (V)	37.23	37.42	37.61	37.80	37.99	38.18	38.37
Short Circuit Current (Isc) (A)	15.00	15.07	15.14	15.19	15.27	15.35	15.40
Max. Power Voltage (Vmpp) (V)	31.21	31.42	31.63	31.84	32.05	32.26	32.47
Max. Power Current (Impp) (A)	14.10	14.16	14.23	14.28	14.36	14.43	14.47
NMOT (Nominal Module Operating Temperature)				41°C ± 3°C			

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m²,AM=15, ambient temperature 25'C.

MECHANICAL DATA

Dimensions	1722 x 1134 x 30 mm
Weight	22kg (2.0mm glass) or 20kg (1.6mm glass)
Solar Cell	Mono 182 x 91mm
Front Glass	2.0mm solar glass or 1.6mm solar glass
Back Glass	2.0mm glass or 1.6mm glass
Frame	Black Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Cable	4mm ² , 1200mm in length, length can be customized / UV resistant
Connector	MC4 or MC4 compatible

PACKAGING

Standard Packaging	36pcs /pallet
Pallets Per Container	26
Module quantity per 40' container	936pcs /40' HQ container

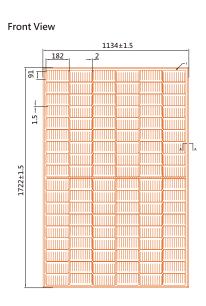
OPERATING CONDITIONS

1500V (IEC/UL) or 1000V (IEC/UL)
-40°C~ +85°C
30A
5400 Pa/2400pa

STANDARD SOLAR PANEL

BIFACIAL TITANLINE

Design (mm)



1093±2 1400±2 400±2 Mounting holes 4-7x10 Mounting holes 4-9x14

LINEAR PERFORMANCE WARRANTY 15 Year Product Warranty | 30 years Linear Power warranty



Back View