

OFF-GRID SOLAR PANEL



GermanSolar
The Partner For Your Solar Lifetime!



CUSTOMIZED SOLAR PANELS

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

FEATURES



Unique design, backed by Germansolar standards of engineering



Use of bypass diodes to avoid hot-spot effect



EL tested and micro cracks inspected



Easy and quick installation



Every solar panel flash tested



UL 61215, 61730 & UL 1703, C1D2



Choices of colors, front and back materials & frames



5-year product warranty and 10-year limited performance warranty

CUSTOMIZED SOLAR PANEL



Model	GSP-005W-12	GSP-010W-12	GSP-020W-12	GSP-030W-12	GSP-040W-12	GSP-050W-12	GSP-060W-12	GSP-070W-12	GSP-080W-12	GSP-090W-12	GSP-100W-12	
ELECTRICAL CHARACTERISTICS	Nominal Max. Power (W)	5	10	20	30	40	50	60	70	80	90	100
	Open Circuit Voltage (Voc) (V)	21.8	21.8	22.0	22.1	22.0	22.3	22.0	22.54	22.5	22.1	22.75
	Short Circuit Current (Isc) (A)	0.31	0.62	1.20	1.75	2.35	2.80	3.56	3.95	4.53	5.31	5.58
	Max. Power Voltage (Vmpp) (V)	18.10	18.1	18.2	18.2	18.2	18.9	18.2	18.98	18.9	18.4	19.15
	Max. Power Current (Imp) (A)	0.28	0.55	1.10	1.65	2.20	2.65	3.29	3.69	4.24	4.89	5.22
	Power Tolerance (%)	0 ~ +3%										
MECHANICAL CHARACTERISTICS	Module Dimensions (LxWxH, mm)	280x195x17	355x265x17	680x290x25	680x380x30	680x475x30	680x545x30	680x640x30	680x720x35	680x800x35	680x980x35	1106x680x35
	Cell Dimensions (mm)	76x9.92	76x19.61	157x24.42	157x34.51	157x44.09	157x52.33	157x63.5	157x72.15	157x78.8	157x99.21	157x99.21
	Cell Type	Poly crystalline silicon										
	Cell String	9 x 4										
	Front Glass	3.2mm tempered glass										
	Cell Encapsulation	EVA (Ethylene-Vinyl Acetate)										
	Frame	Anodized aluminum frame, original, black or customized										
	Back Cover	White, black fluorochemical backsheets or customized										
	Junction Box	IP65 / IP67										
	Weight (Kg)	1	1.6	4	4.9	6.1	7.5	8.2	8.8	9.5	10.3	10.3
WARRANTY & TEMP. CHARACTERISTICS	NMOT	41°C ± 3°C										
	Temperature Coefficient	Pmax: -0.41 %/°C, Voc: -0.331 %/°C, Isc: 0.059 %/°C										
	Operating Temperature Range	-40°C ~ +85°C										
	Certification	C1D2 / ETL EU / ETL CUS / IECEx / ATEX / ISO9001 / ROHS / CE										
	Product Warranty	5 years										
	Performance Warranty	10 years limited power production warranty										

At STC (1000W/m², 25°C, 1.5AM)

For more details or other specifications not listed above, please feel free to contact us.

CUSTOMIZED SOLAR PANEL



Model		GSP-160W-12	GSP-170W-12	GSM-200W-12	GSM-210W	GSM-215W	GSM-220W
ELECTRICAL CHARACTERISTICS	Nominal Max. Power (W)	160	170	200	210	215	220
	Open Circuit Voltage (Voc) (V)	22.65	22.9	24.66	41.50	42.10	42.66
	Short Circuit Current (Isc) (A)	9.05	9.29	10.17	5.06	5.11	5.16
	Max. Power Voltage (Vmpp) (V)	18.9	19.44	20.78	47.96	48.57	48.92
	Max. Power Current (Imp) (A)	8.47	8.75	9.62	5.43	5.46	5.50
	Power Tolerance (%)	0 ~ +3%					
MECHANICAL CHARACTERISTICS	Module Dimensions (LxWxH, mm)	1515x680x35	1515x680x35	1515x680x35	1590x710x35	1590x710x35	1590x710x35
	Cell Dimensions (mm)	157	157	158.75	166	166	166
	Cell Type	Poly crystalline silicon			Mono crystalline silicon		
	Cell String	9 x 4			12 x 6		
	Front Glass	3.2mm tempered glass					
	Cell Encapsulation	EVA (Ethylene-Vinyl Acetate)					
	Frame	Anodized aluminum frame, original, black or customized					
	Back Cover	White, black fluorochemical backsheet or customized					
	Junction Box	IP65 / IP67					
	Weight (Kg)	14	14	14	14.5	14.5	14.5
	WARRANTY & TEMP. CHARACTERISTICS	NMOT	41°C ± 3°C				
Temperature Coefficient		Pmax: -0.41 %/°C, Voc: -0.331 %/°C, Isc: 0.059 %/°C					
Operating Temperature Range		-40°C ~ +85°C					
Certification		C1D2 / ETL EU / ETL CUS / IECEX / ATEX / ISO9001 / ROHS / CE					
Product Warranty		5 years					
Performance Warranty		10 years limited power production warranty					

At STC (1000W/m², 25°C, 1.5AM)

For more details or other specifications not listed above, please feel free to contact us.

Steps we request and follow when designing your special solar panels or solar solutions to meet your requirements.

