



GermanSolar
The Partner For Your Solar Lifetime!®



Customized Modules

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



Unique design, backed by German standards of engineering



Use of bypass diodes to avoid hot-spot effect



EL tested and micro cracks inspected



Easy and quick installation



Every module flashed



IEC 61215, 61730 & UL 1703 C1D2, FM certified



Choices of colors, front and back materials & frames



Positive and tight power tolerance: +3%



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

Off-Grid Modules Specification 160-220W

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)	22.65	22.9	24.66	41.50	42.10	42.66
	Max. Power Voltage (Vmpp)	9.05	9.29	10.17	5.06	5.11	5.16
	Short Circuit Current (Isc)	18.9	19.44	20.78	47.96	48.57	48.92
	Max. Power Current (Impp)	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	9x 4			12x 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					
	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 / FM / 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.