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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**GermanSolar Asia Co., Ltd**

**GSP6-36-5-160W**

**GSP6-36-40W**

Also available on the web at  
[EnergyPal.com/germansolar-asia-co-ltd-solar-panels/gsp6-36-40w](http://EnergyPal.com/germansolar-asia-co-ltd-solar-panels/gsp6-36-40w)



**GermanSolar**  
The Partner For Your Solar Lifetime!®



# Customized Modules

GermanSolar is a specialist in customization, introducing colored solar cells, 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 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 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 5-100W

Model		GSP6-36-5W	GSP6-36-10W	GSP6-36-20W	GSP6-36-30W	GSP6-36-40W	GSP6-36-50W	GSP6-36-60W	GSP6-36-70W	GSP6-36-80W	GSP6-36-90W	GSP6-36-100W
ELECTRICAL CHARACTERISTICS	Nominal Max. Power (W)	5	10	20	30	40	50	60	70	80	90	100
	Open Circuit Voltage (Voc)	21.80	21.80	22	22.1	22	22.3	22	22	22	22.3	22.3
	Max. Power Voltage (Vmpp)	18.10	18.10	18.2	18.2	18.2	18.9	18.2	18.2	18.2	18.9	18.9
	Short Circuit Current (Isc)	0.311	0.622	1.2	1.75	2.37	2.8	3.56	4.15	4.75	0.04	5.6
	Max. Power Current (Impp)	0.276	0.552	1.1	1.65	2.2	2.65	3.29	3.85	4.4	4.76	5.29
	Power Tolerance (%)	0 ~ +3%										
MECHANICAL CHARACTERISTICS	Module Dimensions (Lxwxh, Mm)	240X215X17	370X240X17	490x350x25	670x360x30	670x480x30	670x570x30	670x650x30	770x670x35	885x670x35	965x670x35	1030x670x35
	Cell Dimensions (Mm)	52x17.33	52x34.66	156x22.29	156x33.43	156x44.57	156x55.71	156x64.55	156x78	156x91.45	156x100.29	156x107
	Cell Type	Poly crystalline silicon										
	Cell String	9x4		18x2		9x4						
	Front Glass	3.2mm tempered glass										
	Cell Encapsulation	EVA (Ethylene-Vinyl Acetate)										
	Frame	Anodized aluminum frame, original or black										
	Back Cover	White or black fluorochemical backsheets										
	Junction Box	IP65										
	Weight (Kg)	1.2	1.4	1.6	3.2	4.2	4.7	5.7	6.7	7.6	8	9
WARRANTY & TEMP. CHARACTERISTICS	Noct	45+/-2°C										
	Temperature Coefficient	Pmax: -0.41 %/°C, Voc: -0.331 %/°C, Isc: 0.059 %/°C										
	Operating Temperature Range	-40°C ~ +80°C										
	Certification	C1D2, UL1703										
	Product Warranty	5 years										
	Performance Warranty	10 years limited power production warranty										

At STC (1000W/m<sup>2</sup>, 25°C, 1.5AM)

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



# Off-Grid Modules Specification 150-210W

Model		GSP6-36-150W	GSP6-36-160W	GSM6-36-180W	GSM5-72-200W	GSM5-72-205W	GSM5-72-210W
ELECTRICAL CHARACTERISTICS	Nominal Max. Power (W)	150	160	180	200	205	210
	Open Circuit Voltage (Voc)	23.04	23.25	23.65	45.5	45.58	45.72
	Max. Power Voltage (Vmpp)	19.1	19.1	20.19	38.3	38.39	38.52
	Short Circuit Current (Isc)	8.78	8.96	9.47	5.59	5.67	5.77
	Max. Power Current (Impp)	8.12	8.38	8.93	5.24	5.34	5.45
	Power Tolerance (%)	0 ~ +3%					
MECHANICAL CHARACTERISTICS	Module Dimensions (Lxwxh, Mm)	1470x667x35	1470x667x35	1470x667x35	1580x808x35	1580x808x35	1580x808x35
	Cell Dimensions (Mm)	156x156	156x156	156x156	125x125	125x125	125x125
	Cell Type	Poly crystalline silicon			Mono crystalline silicon		
	Cell String	9x4			12x6		
	Front Glass	3.2mm tempered glass					
	Cell Encapsulation	EVA (Ethylene-Vinyl Acetate)					
	Frame	Anodized aluminum frame, original or black					
	Back Cover	White or black fluorochemical backsheet					
	Junction Box	IP65					
	Weight (Kg)	12.7	12.7	12.7	14	14	14
	WARRANTY & TEMP. CHARACTERISTICS	Noct	45+/-2°C				
Temperature Coefficient		Pmax: -0.41 %/°C, Voc: -0.331 %/°C, Isc: 0.059 %/°C					
Operating Temperature Range		-40°C ~ +80°C					
Certification		C1D2, UL1703					
Product Warranty		5 years					
Performance Warranty	10 years limited power production warranty						

At STC (1000W/m<sup>2</sup>, 25°C, 1.5AM)

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