THE PARTNER FOR YOUR SOLAR LIFETIME!

GermanSolar USA, Inc.

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Better Solar

PowerLine Residential GSP6-60

German engineered, PowerLine modules are designed and built to achieve top quality performance, maximize energy production and ensure long-lasting durability. Each PowerLine module is assembled with our automated manufacturing processes. And the PowerLine surpasses strict in-house and independent testing, guaranteeing the high level of quality our engineers stand behind.

Highlights

- Up to 4.99 W more module performance because of positive classes
- Flash data for every panel
- 12-year product warranty
- 25-year linear performance warranty
- Potential induced degradation (PID) Free
- Effective hotspot-prevention processes ensure durability
- More power due to better power tolerance: ±3%
- Improved water and snow runoff with chamfered frame drainage and snow runoff
- Better performance in diffused sunlight and high temperature
- High ammonia and salt mist resistance certified
- · Glass with anti-reflective coating
- Individual testing and surveying, quality assurance by permanent production control incl. EL-test
- UV stabilized, aesthetically pleasing black anodized frame
- Best price-performance ratio

Built-in durability

GermanSolar only uses cell materials from leading premium cell manufacturers. To eliminate the possibility of hotspot formation thoroughly, strict control-criteria mandate a thermal picture of each cell before and after processing.

Positive classes: (-0/+4.99)

All GermanSolar modules are positively classed. Each PowerLine module is up to 4.99 Wp above its rated power. So no matter what PowerLine module you choose, you are guaranteed up to 4.99 Wp more.

25-year linear performance warranty

Our 25-year linear performance warranty covers for power loss less than 3% in the first year and only 0.35% degradation per year therafter.















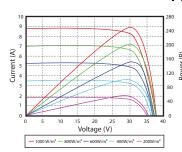




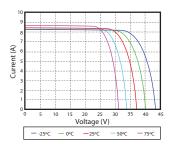
Description

Description							
Item	M	Module Type GSP6 250/255/260/265/270W					
Electrical parameters at STC							
Maximum Power	Pmax(W)	250W	255W	260W	265W	270W	
Power Tolerance	W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	
Tolerance	(%)	±3%	±3%	±3%	±3%	±3%	
Open Circuit Voltage	Voc(V)	37.4	37.7	37.9	38.2	38.4	
Short Circuit Current	Isc(A)	8.83	8.93	9	9.1	9.29	
Maximum Power Voltage	Vmpp(V)	30.08	30.48	30.68	30.87	31.09	
Maximum Power Current	Impp(A)	8.30	8.38	8.41	8.46	8.56	
Module Efficiency	(%)	15.2	15.5	15.8	16.1	16.4	
Solar Cell Efficiency	(%)	17.4	17.7	18.1	18.4	18.7	
STC: Irradiance 1000W/m2, Cell temper	rature 25°C, AM1.5						
Electrical parameters at NOCT							
Maximum Power	Pmax(W)	186W	190W	193W	196W	200W	
Open Circuit Voltage	Voc(V)	34.4	34.7	39.9	35.2	35.5	
Short Circuit Current	Isc(A)	7.03	7.14	7.21	7.35	7.44	
Maximum Power Voltage	Vmpp(V)	28.1	28.4	28.7	29.10		
Maximum Power Current	Impp(A)	6.62	6.67	6.72	6.8	6.85	
NOCT: Irradiance 800W/m2, Ambient	temperature 20°C, \	Wind speed 1 m	/s				
Mechanical Characteristics							
Cell Type	(mm)	156 x 156(Poly-Crystalline Silicon)					
Number of Cells	(Pcs)	60					
Maximum System Voltage	(V)	DC1000					
Temp. Coeff of Voc	(%/K)	-0.33%/K					
Temp. Coeff of Isc	(%/K)	+0.05	+0.05%/K				
Temp. Coeff. Of Pmax	(%/k)	-0.43%/K					
Operating Temperature	(°C)	-40°C to +85°C					
Nominal Operating Cell Temperature	(°C)	47±2					
Max Series Fuse	(A)	15					
Insulation	(MΩ)	50					
Wind Bearing	(Pa)		≤5400				
Pressure Bearing	(Pa)	≤2400					

I-V Curves

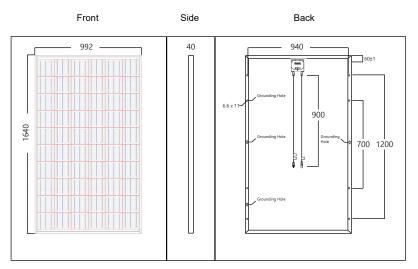


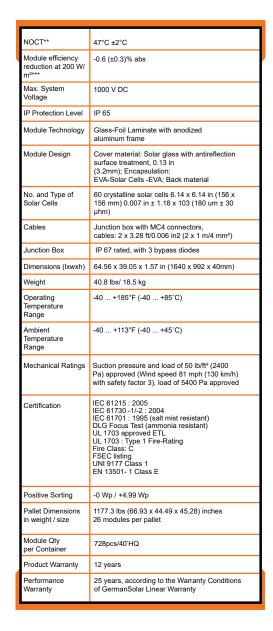
Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

PHYSICAL CHARACTERISTICS Unit: mm





25-Year Linear Performance Warranty

