

## BlueSolar Polycrystalline Panels



BlueSolar Polycrystalline 130W

- Low voltage-temperature coefficient enhances high-temperature operation.
- Exceptional low-light performance and high sensitivity to light across the entire solar spectrum.
- 25-year limited warranty on power output and performance.
- 2-year Limited warranty on materials and workmanship.
- Sealed, waterproof, multi-functional junction box gives high level of safety.
- High performance bypass diodes minimize the power drop caused by shade.
- Advanced EVA (Ethylene Vinyl Acetate) encapsulation system with triple-layer back sheet meets the most stringent safety requirements for high-voltage operation.
- A sturdy, anodized aluminum frame allows modules to be easily roof-mounted with a variety of standard mounting systems.
- Highest quality, high-transmission tempered glass provides enhanced stiffness and impact resistance.
- Pre wired quick-connect system with PV-ST01 connectors.



PV-ST01 connectors

Type	Module Size	Glass size	Weight	Electrical data under STC <sup>(1)</sup>				
				Nominal Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-circuit Current
				P <sub>MPP</sub>	V <sub>MPP</sub>	I <sub>MPP</sub>	V <sub>oc</sub>	I <sub>sc</sub>
Module	mm	mm	Kg	W	V	A	V	A
SPP30-12	532x418x23	527x413	3	30	18	1.66	21.6	1.83
SPP50-12	810x534x35	804x528	6.5	50	18	2.78	21.6	3.05
SPP80-12	1196x534x35	1189x528	8	80	18	4.44	21.6	4.88
SPP130-12	1456x666x35	1450x660	13	130	18	7.23	21.6	7.94
SPP180-24	1580x808x35	1574x802	15	180	36	4.95	43.2	5.45
SPP280-24	1930x980x50	1924x974	19	280	36	7.78	43.2	8.55
Module		SPP30-12	SPP50-12	SPP80-12	SPP130-12	SPP180-24	SPP280-24	
Nominal Power (±3% tolerance)		30W	50W	80W	130W	180W	280W	
Cell type		Polycrystalline						
Number of cells in series		36				72		
Maximum system voltage (V)		1000V						
Temperature coefficient of P <sub>MPP</sub> (%)		-0.47/°C	-0.47/°C	-0.47/°C	-0.47/°C	-0.47/°C	-0.47/°C	
Temperature coefficient of V <sub>oc</sub> (%)		-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	
Temperature coefficient of I <sub>sc</sub> (%)		+0.05/°C	+0.05/°C	+0.05/°C	+0.05/°C	+0.05/°C	+0.05/°C	
Temperature Range		-40°C to +80°C						
Surface Maximum Load Capacity		200kg/m <sup>2</sup>						
Allowable Hail Load		23m/s, 7.53g						
Junction Box Type		PV-RH0301						
Connector Type		PV-ST01/M PV-ST01/F						
Length of Cables		900mm						
Output tolerance		+/-3%						
Frame		Aluminium						
Product warranty		2 years						
Warranty on electrical performance		10 years 90% + 25 years 80% of power output						
Smallest packaging unit		1 panel						
Quantity per pallet		88 panels	44 panels	44 panels	40 panels	52 panels	36 panels	

1) STC (Standard Test Conditions): 1000W/m<sup>2</sup>, 25°C, AM (Air Mass) 1.5

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