

# BlueSolar Polycrystalline Panels

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BlueSolar Polycrystalline 175W

- 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.
- 5-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 aluminium 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.
- High power models with pre-wired quick-connect system with MC4 (PV-ST01) connectors.



MC4 connectors

Article Number	Description	Net weight	Electrical data under STC (1)				
			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>
		Kg	W	V	A	V	A
SPP040201200	20W-12V Poly 440 x 350 x 25mm series 4a	1.9	20	18.4	1.09	21.96	1.18
SPP040301200	30W-12V Poly 655 x 350 x 25mm series 4a	2.8	30	18.2	1.66	21.80	1.80
SPP030501200	50W-12V Poly 540 x 670 x 25mm series 3a	4.3	50	18	2.78	22.2	3.09
SPP040601200	60W-12V Poly 545 x 668 x 25mm series 4a	4	60	19.3	3.12	23.10	3.37
SPP030801200	80W-12V Poly 840 x 670 x 35 mm series 3a	6.8	80	18	4.44	21.6	5.06
SPP040901200	90W-12V Poly 780 x 668 x 30mm series 4a	6.1	90	19.5	4.61	23.44	4.98
SPP031001200	100W-12V Poly 1000 x 670 x 35mm series 3a	8.9	100	18	5.56	21.6	6.32
SPP041001200	100W-12V Poly 920 x 668 x 30mm series 4a	8	100	18.2	5.5	21.85	5.94
SPP041751200	175W-12V Poly 1485 x 668 x 30mm series 4a	12	175	18,3	9.56	21.9	10.24
SPP032602000	260W-20V Poly 1640 x 992 x 40mm series 3b	17	260	30	8.66	36.75	9.30
SPP033202400	320W-24V Poly 1956 x 992 x 45 mm series 3a	24	320	36	8.89	44,10	9.44
SPP043302400	330W-24V Poly 1956 x 992 x 40mm series 4a	22.5	330	37.3	8.86	44.72	9.57

Module	SPP 040201200	SPP 040301200	SPP 030501200	SPP 040601200	SPP 030401200	SPP 040901200	SPP 0301001200	SPP 041001200	SPP 041751200	SPP 032601200	SPP 033202400	SPP 043302400
Nominal Power (± 3% tolerance)	20W	30W	50W	60W	80W	90W	100W	100W	175W	260W	320W	330W
Cell type	Polycrystalline											
Number of cells in series	36									60	72	72
Maximum system voltage (V)	1000V											
Temperature coefficient of PMPP (%)	-0.45/°C	-0.45/°C	-0.48/°C	-0.45/°C	-0.48/°C	-0.45/°C	-0.48/°C	-0.48/°C	-0.45/°C	-0.47/°C	-0.47/°C	-0.45/°C
Temperature coefficient of Voc (%)	-0.35/°C	-0.35/°C	-0.34/°C	-0.35/°C	-0.34/°C	-0.35/°C	-0.34/°C	-0.35/°C	-0.35/°C	-0.34/°C	-0.34/°C	-0.35/°C
Temperature coefficient of Isc (%)	+0.04/°C	+0.04/°C	+0.037/°C	+0.04/°C	+0.037/°C	+0.04/°C	+0.037/°C	+0.037/°C	+0.04/°C	+0.045/°C	+0.045/°C	+0.04/°C
Temperature Range	-40°C to +85°C											
Surface Maximum Load Capacity	200 kg/m <sup>2</sup>											
Allowable Hail Load	23 m/s, 7.53 g											
Junction Box Type	PV-LH0805	PV-LH0806	PV-LH0801	PV-LH0806	PV-LH0801		PV-JH02	PV-LH0808			PV-JB002	
Length of Cable / connector	No cable					900 mm / MC4						
Output tolerance	+/-3%											
Frame	Aluminium											
Product warranty	5 years											
Warranty on electrical performance	10 years 90% + 25 years 80% of power output											
Smallest packaging unit	1 panel											
Quantity per pallet	425	265	100	180	20	90	20	90	58	20	19	39

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