

# BlueSolar Monocrystalline Panels

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- 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.

## BlueSolar Monocrystalline 280W



MC4 connectors

Article Number	Description	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>	
		Kg	W	V	A	V	A	
SPM030301200	30W-12V Mono 430x545x25mm series 3a	2.5	30	18	1.67	22.5	2	
SPM030501200	50W-12V Mono 630x545x25mm series 3a	4	50	18	2.78	22.2	3.16	
SPM030801200	80W-12V Mono 1195x545x35mm series 3a	8	80	18	4.45	22.3	4.96	
SPM031001200	100W-12V Mono 1195x545x35mm series 3a	8	100	18	5.56	22.4	6.53	
SPM031501200	150W-12V Mono 1480x673x35mm series 3a	12	150	18	8.33	22.4	9.80	
SPM031902400	190W-24V Mono 1580x808x35mm series 3a	15	190	36	5.44	43.2	5.98	
SPM033002400	300W-24V Mono 1956x992x45mm series 3a	24	300	36	8.06	45.5	8.56	
Module		SPM 030301200	SPM 030501200	SPM 030801200	SPM 031001200	SPM 031501200	SPM 031902400	SPM 033002400
Nominal Power (±3% tolerance)		30W	50W	80W	100W	150W	190W	300W
Cell type		Monocrystalline						
Number of cells in series		36					72	
Maximum system voltage (V)		1000 V						
Temperature coefficient of P <sub>MPP</sub> (%)		-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C
Temperature coefficient of V <sub>oc</sub> (%)		-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C
Temperature coefficient of I <sub>sc</sub> (%)		+0.037/°C	+0.037/°C	+0.037/°C	+0.037/°C	+0.05/°C	+0.037/°C	+0.037/°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-LH0801			PV-LH0808		PV-JB002	
Length of Cables / Connector Type		No cable	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		100	40	20	20	20	18	

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