

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 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 MC4 (PV-ST01) connectors. (Except for the 30W panel)



MC4 connectors

BlueSolar Monocrystalline 280W

Article number	Description	Weight	Electrical data under STC ⁽¹⁾				
			Nominal Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-circuit Current
			P _{MPP}	V _{MPP}	I _{MPP}	V _{oc}	I _{sc}
		Kg	W	V	A	V	A
SPM010301200	30W-12V Mono 430x545x25mm series 3a	2.5	30	18	1.67	22.5	2
SPM010501210	50W-12V Mono 645x540x35mm series 1b	5.2	50	18	2.78	22.2	3.16
SPM010801210	80W-12V Mono 1005x540x35mm series 1b	7	80	18	4.45	22.3	4.96
SPM031001200	100W-12V Mono 1195x545x35mm series 3a	8	100	18	5.56	22.4	6.53
SPM031301200	130W-12V Mono 1480x673x35mm series 3a	11.5	130	18	7.23	22.4	8.49
SPM011902400	190W-24V Mono 1580x808x35mm series	14.5	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 010301200	SPM 010501210	SPM 010801210	SPM 031001200	SPM 031301200	SPM 011902400	SPM 033002400
Nominal Power (±3% tolerance)	30W	50W	80W	100W	130W	190W	300W
Cell type	Monocrystalline						
Number of cells in series	36					72	
Maximum system voltage (V)	1000V						
Temperature coefficient of P _{MPP} (%)	-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 _{oc} (%)	-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 _{sc} (%)	+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	200kg/m ²						
Allowable Hail Load	23m/s, 7.53g						
Junction Box Type	PV-JH03-2	PV-JH02	PV-JH02	PV-JH02	PV-RH0301	PV-JH03	PV-JH200
Length of Cables / Connector Type	No cable	750mm MC4	900mm MC4	900mm MC4	900mm MC4	900mm MC4	1000mm MC4
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	40 panels	40 panels	20 panels	20 panels	20 panels	20 panels	20 panels

1) STC (Standard Test Conditions): 1000W/m², 25°C, AM (Air Mass) 1.5