

BlueSolar Polycrystalline Panels

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BlueSolar Polycrystalline 140W

- 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 _{MPP}	V _{MPP}	I _{MPP}	V _{oc}	I _{sc}
		Kg	W	V	A	V	A
SPP030201200	20W-12V Poly 480x350x25 mm series 3a	2.2	20	18	1.11	22.5	1.23
SPP030301200	30W-12V Poly 410x670x25 mm series 3a	3.7	30	18	1.67	22.5	1.85
SPP030401200	40W-12V Poly 450x670x25mm series 3a	4.2	40	18	2.22	22.5	2.46
SPP030501200	50W-12V Poly 540x670x25 mm series 3a	4.3	50	18	2.78	22.2	3.09
SPP030801200	80W-12V Poly 840x670x35 mm series 3a	6.8	80	18	4.44	21.6	5.06
SPP031001200	100W-12V Poly 1000x670x35 mm series 3a (2)	8.9	100	18	5.56	21.6	6.32
SPP031001201	100W-12V Poly 1000x670x35 mm series 3b (2)	8.9	100	18	5.56	21.6	6.32
SPP031401200	140W-12V Poly 1480x673x35 mm series 3a	12	140	20	7.78	21.6	8.85
SPP032502001	250W-20V Poly 1640x992x40mm series 3b	17	250	30	8.33	36.75	8.94
SPP032902400	290W-24V Poly 1956x992x45 mm series 3a	24	290	36	8.06	44,10	8.56

Module	SPP 030201200	SPP 030301200	SPP 030401200	SPP 030501200	SPP 030801200	SPP 031001200	SPP 031001201	SPP 031401200	SPP 032502400	SPP 032902400
Nominal Power (± 3% tolerance)	20W	30W	40W	50W	80W	100W	100W	140W	250W	290W
Cell type	Polycrystalline									
Number of cells in series	36					72	36	60	72	
Maximum system voltage (V)	1000V									
Temperature coefficient of P _{MPP} (%)	-0.47/°C	-0.48/°C			-0.48/°C		-0.48/°C		-0.47/°C	
Temperature coefficient of V _{oc} (%)	-0.34/°C	-0.34/°C			-0.34/°C		-0.35/°C		-0.34/°C	
Temperature coefficient of I _{sc} (%)	+0.045/°C	+0.037/°C			+0.037/°C		+0.037/°C		+0.045/°C	
Temperature Range	-40°C to +85°C									
Surface Maximum Load Capacity	200 kg/m ²									
Allowable Hail Load	23 m/s, 7.53 g									
Junction Box Type	PV-LH0801				PV-JH02	PV-LH0808			PV-JB002	
Length of Cable / connector	No cable	No cable	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	150	100			20			19	18	

1) STC (Standard Test Conditions): 1000 W/m², 25°C, AM (Air Mass) 1.5
2) Cell appearance of model b slightly different from model a