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 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.
- 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}	Voc	Isc
		Kg	W	V	A	V	A
SPP030201200	20W-12V Poly 480x350x25mm series 3a	2.2	20	18	1.11	22.5	1.23
SPP030301200	30W-12V Poly 410×670×25mm series 3a	3.7	30	18	1.67	22.5	1.85
SPP020401200	40W-12V Poly 670×475×25mm series 2a	4.2	40	18	2.22	22.5	1.85
SPP030501200	50W-12V Poly 540×670×25mm series 3a	4.3	50	18	2.78	22.2	3.09
SPP020751200	75W-12V Poly 780×670×25mm series 2a	6.6	75	18	4.17	22.2	4.64
SPP030801200	80W-12V Poly 840×670×25mm series 3a	6.8	80	18	4.44	21.6	5.06
SPP031001200	100W-12V Poly 1000×670×25mm series 3a	8.9	100	18	5.56	21.6	6.32
SPP031401200	140W-12V Poly 1480×673×25mm series 3a	12	140	18	7.78	21.6	8.85
SPP032502400	250W-20V Poly 1640x992x40mm series 3a	18	250	30	8.33	36.01	9.40
SPP032902400	290W-24V Poly 1956×992×45mm series 3a	24	290	36	8.06	44,10	8.56

Module	SPP 030201200	SPP 030301200	SPP 020401200	SPP 030501200	SPP 020751200	SPP 030801200	SPP 031001200	SPP 031401200	SPP 032502400	SPP 032902400
Nominal Power (±3% tolerance)	20W	30W	40W	50W	75W	80W	100W	140W	250W	290W
Cell type	Polycrystalline									
Number of cells in series	36							60	72	
Maximum system voltage (V)	1000V									
Temperature coefficient of PMPP (%)	-0.47/°C	-0.48/°C			-0.48/°C		-0.48/°C		-0.47/°C	
Temperature coefficient of Voc (%)	-0.34/°C	-0.34/°C			-0.34/°C		-0.35/°C		-0.34/°C	
Temperature coefficient of Isc (%)	+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	200kg/m²									
Allowable Hail Load	23m/s, 7.53g									
Junction Box Type	PV-LH0801				PV-JH02	PV-LH0808			PV-JB002	
Length of Cable / connector	No cable	No cable	No cable	No cable	900mm / 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			18	19

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

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