

# BlueSolar Polycrystalline Panels

www.victronenergy.com



**BlueSolar Polycrystalline 130W**

- 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.



**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
SPP030301200	30W-12V Poly 410x670x25mm series 3a	3.5	30	18	1.67	22.5	1.85
SPP020401200	40W-12V Poly 670x475x25mm series 2a	4.5	40	18	2.22	22.5	1.85
SPP030501200	50W-12V Poly 540x670x25mm series 3a	5.7	50	18	2.78	22.2	3.09
SPP020751200	75W-12V Poly 780x670x25mm series 2a	7.9	75	18	4.17	22.2	4.64
SPP010801210	80W-12V Poly 915x670x35mm series 1b	8	80	18	4.44	21.6	5.06
SPP021001200	100W-12V Poly 1015x670x35mm series 2a	9	100	18	5.56	21.6	6.32
SPP021401200	140W-12V Poly 1480x670x35mm series 2a	15	140	18	7.78	21.6	8.85
SPP032502400	250W-20V Poly 1650x992x40mm series 3a	20,3	250	30	8.33	36.01	9.40
SPP012802400	280W-24V Poly 1956x992x50mm series 1a	24	280	36	7.78	44.06	8.26
SPP023002400	300W-24V Poly 1960x989x40mm series 2a	29	300	36	8.33	44,10	8.85

Module	SPP 030301200	SPP 020401200	SPP 030501200	SPP 020751200	SPP 010801210	SPP 021001200	SPP 021401200	SPP 032502400	SPP 012802400	SPP 023002400
Nominal Power (±3% tolerance)	30W	40W	50W	75W	80W	100W	140W	250W	280W	300W
Cell type	Polycrystalline									
Number of cells in series	36						60	72		
Maximum system voltage (V)	1000V									
Temperature coefficient of P <sub>MPP</sub> (%)	-0.47/°C	-0.48/°C			-0.48/°C		-0.48/°C		-0.47/°C	
Temperature coefficient of V <sub>oc</sub> (%)	-0.34/°C	-0.34/°C			-0.34/°C		-0.35/°C		-0.34/°C	
Temperature coefficient of I <sub>sc</sub> (%)	+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/m <sup>2</sup>									
Allowable Hail Load	23m/s, 7.53g									
Junction Box Type	PV-JH03-2	PV-JH02			PV-JH02		PV-JH02		PV-JH200	
Length of Cable / connector	No cable	No cable	No cable	No cable	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	25 panels	25 panels			25 panels	20 panels	10 panels			

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