

# 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.
- 2-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**

Type	Module Size	Glass size	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>
Module	mm	mm	Kg	W	V	A	V	A
SPP30-12	735x350x25	730x345	5.2	30	18	1.72	22.5	1.85
SPP51-12	540x670x35	535x665	5,3	50	18	2.85	22.2	3.09
SPP81-12	915x670x35	910x665	8	80	18	4.6	21.6	5.06
SPP101-12	1005x670x35	1000x665	9	100	18	5.75	21.6	6.32
SPP140-12	1480x670x35	1474x664	12.5	140	18	8.05	21.6	8.85
SPP280-24	1956x992x50	1950x986	24	280	36	7.7	44.06	8.26
Module		SPP30-12	SPP51-12	SPP81-12	SPP101-12	SPP140-12	SPP280-24	
Nominal Power (±3% tolerance)		30W	50W	80W	100W	140W	280W	
Cell type		Polycrystalline						
Number of cells in series		36						72
Maximum system voltage (V)		1000V						
Temperature coefficient of PMPP (%)		-0.47/°C	-0.48/°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	-0.34/°C	-0.35/°C	-0.34/°C	
Temperature coefficient of Isc (%)		+0.045/°C	+0.037/°C	+0.037/°C	+0.037/°C	+0.037/°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-JH02	PV-JH200	
Connector Type		MC4						
Length of Cables		450mm	750mm	900mm			1000mm	
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	

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