

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 ⁽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}
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	-0.48/°C	-0.47/°C	
Temperature coefficient of Voc (%)	-0.34/°C	-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	+0.037/°C	+0.045/°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-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/m², 25°C, AM (Air Mass) 1.5