

BlueSolar Polycrystalline Panels

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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

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	3.5	30	18	1.67	22.5	1.85
SPP40-12	670x475x25	665x470	4.5	40	18	2.22	22.5	1.85
SPP51-12	540x670x35	535x665	5.7	50	18	2.78	22.2	3.09
SPP75-12	780x670x25	775x665	7.9	75	18	4.17	22.2	4.64
SPP81-12	915x670x35	910x665	8	80	18	4.44	21.6	5.06
SPP101-12	1005x670x35	1000x665	9	100	18	5.56	21.6	6.32
SPP140-12	1480x670x35	1474x664	15	140	18	7.78	21.6	8.85
SPP250-20	1650x992x40	1644x986	20,3	250	30	8.33	36.01	9.40
SPP280-24	1956x992x50	1950x986	24	280	36	7.78	44.06	8.26
SPP300-24	1960x989x40	1954x983	29	300	36	8.33	44,10	8.85

Module	SPP30-12	SPP40-12	SPP51-12	SPP75-12	SPP81-12	SPP101-12	SPP140-12	SPP250-20	SPP280-24	SPP300-24
Nominal Power (±3% tolerance)	30W	40W	50W	75W	80W	100W	140W	250W	280W	280W
Cell type	Polycrystalline									
Number of cells in series	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	200kg/m ²									
Allowable Hail Load	23m/s, 7.53g									
Junction Box Type	PV-JH03-2		PV-JH02		PV-JH02		PV-JH02		PV-JH200	
Connector Type	MC4									
Length of Cables	450mm	No cable	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	25 panels		25 panels		25 panels		20 panels		10 panels	

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