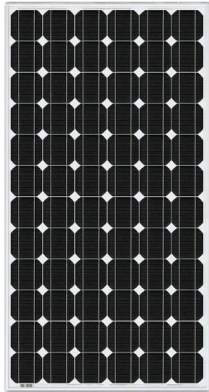


BlueSolar Monocrystalline Panels

www.victronenergy.com



BlueSolar Monocrystalline 305W

- 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 aluminium 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}	V _{oc}	I _{sc}
		Kg	W	V	A	V	A
SPM040201200	20W-12V Mono 440 x 350 x 25mm series 4a	1.9	20	18.5	1.09	22.6	1.19
SPM030301200	30W-12V Mono 430 x 545 x 25mm series 3a	2.5	30	18	1.67	22.5	2.00
SPM030501200	50W-12V Mono 630 x 545 x 25mm series 3a	4	50	18	2.78	22.2	3.16
SPM040551200	55W-12V Mono 545 x 668 x 25mm series 4a	4	55	18.8	2.94	22.9	3.22
SPM030801200	80W-12V Mono 1195 x 545 x 35mm series 3a	8	80	18	4.45	22.3	4.96
SPM031001200	100W-12V Mono 1200 x 545 x 35mm series 3a	8	100	18	5.56	22.4	6.53
SPM041001200	100W-12V Mono 1200 x 550 x 30mm series 4a	9	100	18.3	5.47	22.4	5.99
SPM031601200	160W-12V Mono 1480 x 673 x 35mm series 3a	12	160	18	8.90	22.4	9.90
SPM041751200	175W-12V Mono 1485 x 668 x 30mm series 4a	11	175	19.4	9.03	23.7	9.89
SPM032002400	200W-24V Mono 1580 x 808 x 35mm series 3a	15	200	36	5.55	43.2	6.10
SPM043052000	305W-20V Mono 1640 x 992 x 35mm series 4a	18	305	32.5	9.38	39.7	10.27
SPM033402400	340W-24V Mono 1956 x 992 x 45mm series 3a	24	340	36	9.44	45.5	10.30
SPM043602400	360W-24V Mono 1956 x 992 x 40mm series 4a	22	360	38.4	9.38	47.4	10.24

Module	SPM 040201200	SPM 030301200	SPM 030501200	SPM 040551200	SPM 030801200	SPM 031001200 041001200	SPM 041001200	SPM 041751200	SPM 032002400	SPM 043052000	SPM 033402400	SPM 043602400
Nominal Power (±3% tolerance)	20W	30W	50W	55W	80W	100W	160W	175W	200W	305W	340W	360W
Cell type	Monocrystalline											
Number of cells in series	36								72	60	72	72
Maximum system voltage	1000V											
Temperature coefficient of MPP (%)	-0.45/°C	-0.48/°C	-0.48/°C	-0.45/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.45/°C	-0.48/°C	-0.45/°C	-0.48/°C	-0.45/°C
Temperature coefficient of Voc (%)	-0.35/°C	-0.34/°C	-0.34/°C	-0.35/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.35/°C	-0.34/°C	-0.35/°C	-0.34/°C	-0.35/°C
Temperature coefficient of Isc (%)	+0.04/°C	+0.037/°C	+0.037/°C	+0.04/°C	+0.05/°C	+0.037/°C	+0.037/°C	+0.04/°C	+0.037/°C	+0.04/°C	+0.037/°C	+0.04/°C
Temperature Range	-40°C to +85°C											
Surface Maximum Load Capacity	200 kg/m ²											
Allowable Hail Load	23 m/s, 7.53 g											
Junction Box Type	PV-LH0801						PV-LH0808			PV-JB002		
Length of Cables / Connector Type	No cable						900 mm 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	520	100	100	200	40	40	23	80	23	48	19	50

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