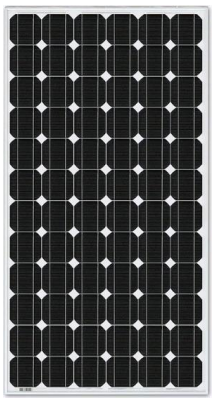
BlueSolar Monocrystalline Panels

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.

Article Number	Description	Net Weight	Electrical data under STC [1]				
			Nominal Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-Circuit Current
			Pmpp	Vmpp	Impp	Voc	Isc
		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
SPM040301200	30W-12V Mono 560 x 350 x 25mm series 4a	2.2	30	18.7	1.61	22.87	1.76
SPM040401200	40W-12V Mono 425 x 668 x 25mm series 4a	3.1	40	18.3	2.19	22.45	2.40
SPM040551200	55W-12V Mono 545 x 668 x 25mm series 4a	4	55	18.8	2.94	22.9	3.22
SPM040901200	90W-12V Mono 780 x 668 x 30mm series 4a	6.1	90	19.6	4.59	24.06	5.03
SPM041151202	115W-12V Mono 1030 x 668 x 30mm series 4b	8	115	19.0	6.04	23.32	6.61
SPM041301200	130W-12V Mono 1200 x 668 x 30mm series 4a	9.1	130	18.64	6.98	22.83	7.35
SPM041401200	140W-12V Mono 1250 x 668 x 30mm series 4a	9	140	19.4	7.22	23.6	8.05
SPM041501200	150W-12V Mono 1485 x 668 x 30mm series 4a	11	150	18.2	8.25	22.3	8.69
SPM041751200	175W-12V Mono 1485 x 668 x 30mm series 4a	11	175	19.4	9.03	23.7	9.89
SPM041851200	185W-12V Mono 1485 x 668 x 30mm series 4a	11	185	19.68	9.41	24.11	9.91
SPM042152402	215W-24V Mono 1580 x 705 x 35mm series 4b	11,7	215	40.1	5.36	46.01	5.65
SPM043052002	305W-20V Mono 1658 x 1002 x 35mm series 4b	19	305	32.5	9.38	39.7	10.27
SPM043602402	360W-24V Mono 1980 x 1002 x 40mm series 4b	23	360	38.4	9.38	47.4	10.24

Module	SPM 040201200	SPM 040301200	SPM 04040120	SPM 040551200	SPM 040901200	SPM 041151202	SPM 041301200	SPM 04140120	SPM 041501200	SPM 041751200	SPM 041851200	SPM 042152402	SPM 043052002	SPM 043602402
Nominal Power (±3% tolerance)	20W	30W	40W	55W	90W	115W	130W	140W	150W	175W	185W	215W	305W	360W
Cell type	Monocrystalline													
Number of cells in series	36											72	60	72
Maximum system voltage	1000V													
Temperature coefficient of MPP (%)	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C	-0.45/°C
Temperature coefficient of Voc (%)	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/° C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C	-0.35/°C
Temperature coefficient of Isc (%)	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C	+0.04/°C
Temperature Range	-40°C to +85°C													
Surface Maximum Load Capacity	200 kg/m²													
Allowable Hail Load	23 m/s, 7.53 g													
Junction Box Type	PV-LH0805		PV-LH0806		PV-LH0801	PV-LH0808	PV-LH0808-1	PV-LH0808	PV-LH0808-1	PV-LH0701	PV-LH0808	PV-LH0701	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	380	260	200	140	72	72	36	48	48	42	48	42	42	37

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

Victron Energy B.V. | De Paal 35 | 1351 JG Almere | The Netherlands
E-mail: sales@victronenergy.com
www.victronenergy.com