BlueSolar Monocrystalline Panels

Current models

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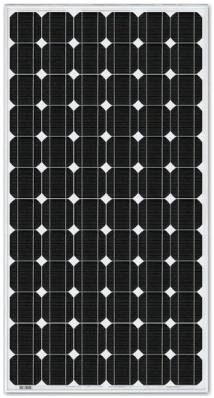

BlueSolar Monocrystalline 305W

- 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	Maximum series fuse rating
			P_{MPP}	V_{MPP}	I_{MPP}	Voc	Isc	
		Kg	W	V	A	V	A	A
SPM040203603	20W-36 cells Mono 275 x 450 x 25 mm series 4c	1.30	20	21.3	0.95	24.7	1.99	10
SPM040303603	30W-36 cells Mono 380 x 450 x 25 mm series 4c	1.80	30	21.2	1.42	24.7	1.49	10
SPM040401200	40W-36 cells Mono 425 x 668 x 25 mm series 4a	3.10	40	18.3	2.19	22.45	2.40	10
SPM040553603	55W-36 cells Mono 715 x 445 x 25 mm series 4c	3.34	55	21.0	2.63	24.8	2.79	10
SPM040953003	95W-30 cells Mono 770 x 668 x 30 mm series 4c	5.40	95	17.6	5.42	20.4	5.7	10
SPM041303603	130W-36 cells Mono 1020 x 668 x 30 mm series 4c	7.10	130	21.1	6.18	24.80	6.53	10
SPM041501200	150W-36 cells Mono 1485 x 668 x 30 mm series 4a	11.00	150	18.2	8.25	22.3	8.69	15
SPM041903903	190W-39 cells Mono 1485 x 668 x 30 mm series 4c	10.50	190	21.8	8.71	25.5	9.17	15
SPM042357203	235W-72 cells Mono 1350 x 880 x 30 mm series 4c	12.48	235	41.4	5.68	49.6	6.02	10
SPM042357204	235W-72 cells Mono 1350 x 880 x 30mm series 4d	12.48	235	41.0	5.60	49.4	5.94	10
SPM042855603	285W-56 cells Mono 1550 x 880 x 35 mm series 4c	14.32	285	33.4	8.63	38.9	9.08	15
SPM043456803	345W-68 cells Mono 1870 x 880 x 35 mm series 4c	17.28	345	38.7	8.80	45.20	9.27	15
SPM043657203	365W-72 cells Mono 1980 x 880 x 35 mm series 4c	18.30	365	41.4	8.83	48.40	9.30	15

Module	SPM 040203603	SPM 040303603	SPM 040401200	SPM 040553603	SPM 040953003	SPM 041303603	SPM 041501200	SPM 041903903	SPM 042357204	SPM 042357204	SPM 042855603	SPM 043456803	SPM 043657203
Nominal Power (±3%)	20W	30W	40W	55W	95W	130W	150W	190W	235W	235W	285W	345W	365W
Number of cells in series	36	36	36	36	30	36	36	39	72	72	56	68	72
Efficiency	16,16%	17,89%	16,20%	17,29%	18,47%	19,10%	18,90%	19,16%	19,78%	19,36%	20,89%	20,96%	20,95%
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
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
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
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 with bypass diode	PV-LH0802	PV-LH0806	PV-LH0806	PV-LH0801	PV-LH0801	PV-LH0808-1	PV-LH0808-1	LH0808	LH858B	LH858B	LH858B	LH858B	LH858B
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	450	360	200	195	72	72	48	29	29	29	26	26	26

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

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