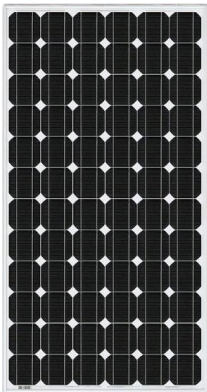


# BlueSolar Monocrystalline Panels

www.victronenergy.com



- 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.

## BlueSolar Monocrystalline 305W

| Article Number | Description                                | Net Weight | Electrical data under STC <sup>(1)</sup> |                   |                   |                      |                       |
|----------------|--|------------|--|-------------------|-------------------|----------------------|-----------------------|
|                |  |            | Nominal Power                            | Max-Power Voltage | Max-Power Current | Open-Circuit Voltage | Short-Circuit Current |
|                |  |            | P <sub>MPP</sub>                         | V <sub>MPP</sub>  | I <sub>MPP</sub>  | V <sub>oc</sub>      | I <sub>sc</sub>       |
|                |  | 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                  |
| SPM041151200   | 115W-12V Mono 1015 x 668 x 30mm series 4a  | 8          | 115                                      | 19.0              | 6.04              | 23.32                | 6.61                  |
| SPM041151202*  | 115W-12V Mono 1030 x 668 x 30mm series 4b  | 8          | 115                                      | 19.0              | 6.04              | 23.32                | 6.61                  |
| SPM041401200   | 140W-12V Mono 1250 x 668 x 30mm series 4a  | 9          | 140                                      | 19.4              | 7.22              | 23.6                 | 8.05                  |
| SPM041751200   | 175W-12V Mono 1485 x 668 x 30mm series 4a  | 11         | 175                                      | 19.4              | 9.03              | 23.7                 | 9.89                  |
| SPM042152400   | 215W-24V Mono 1580 x 808 x 35mm series 4a  | 15         | 215                                      | 37.4              | 5.75              | 45.82                | 6.30                  |
| SPM043052000   | 305W-20V Mono 1640 x 992 x 35mm series 4a  | 18         | 305                                      | 32.5              | 9.38              | 39.7                 | 10.27                 |
| SPM043052002*  | 305W-20V Mono 1658 x 1002 x 35mm series 4b | 19         | 305                                      | 32.5              | 9.38              | 39.7                 | 10.27                 |
| SPM043602400   | 360W-24V Mono 1956 x 992 x 40mm series 4a  | 22         | 360                                      | 38.4              | 9.38              | 47.4                 | 10.24                 |
| 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 040401200 | SPM 040551200 | SPM 040901200 | SPM 041151200 | SPM 041151202 | SPM 041401200 | SPM 041751200 | SPM 042152400 | SPM 043052000 | SPM 043052002 | SPM 043602400 | SPM 043602402 |
|------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Nominal Power (±3% tolerance)      | 20W   | 30W           | 40W           | 55W           | 90W           | 115W          | 115W          | 140W          | 175W          | 215W          | 305W          | 305W          | 360W          | 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/m <sup>2</sup>                       |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Allowable Hail Load                | 23 m/s, 7.53 g                              |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Junction Box Type                  | PV-LH0805                                   |               | PV-LH0806     |               | PV-LH0801     |               | 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            | 42            | 42            | 42            | 42            | 37            | 37            |

\*New dimensions: will replace 4a model

1) STC (Standard Test Conditions): 1000 W/m<sup>2</sup>, 25°C, AM (Air Mass) 1.5