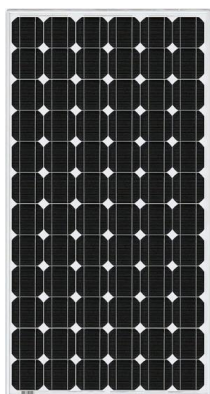


# BlueSolar Monocrystalline Panels

Latest models

[www.victronenergy.com](http://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                     |
| SPM040203603   | 20W-36 cells Mono 275 x 450 x 25mm series 4c    | 1.3        | 20                                      | 21.3              | 0.95              | 24.7                 | 1.99                  |
| SPM040303603   | 30W-36 cells Mono 380 x 450 x 25 mm series 4c   | 1.8        | 30                                      | 21.2              | 1.42              | 24.7                 | 1.49                  |
| SPM040553603   | 55W-36 cells Mono 715 x 445 x 25 mm series 4c   | 3.34       | 55                                      | 21.0              | 2.63              | 24.8                 | 2.79                  |
| SPM040953003   | 95W-30 cells Mono 770 x 668 x 30 mm series 4c   | 5.4        | 95                                      | 17.6              | 5.42              | 20.4                 | 5.7                   |
| SPM041303603   | 130W-36 cells Mono 1020 x 668 x 30 mm series 4c | 7.1        | 130                                     | 21.1              | 6.18              | 24.80                | 6.53                  |
| SPM041903903   | 190W-39 cells Mono 1485 x 668 x 30 mm series 4c | 10.5       | 190                                     | 21.8              | 8.71              | 25.5                 | 9.17                  |
| SPM043456803   | 345W-68 cells Mono 1870 x 880 x 35 mm series 4c | 17.28      | 345                                     | 38.7              | 8.80              | 45.20                | 9.27                  |
| SPM043657203   | 365W-72 cells Mono 1980 x 880 x 35mm series 4c  | 18.3       | 365                                     | 41.4              | 8.83              | 48.40                | 9.30                  |

| Module                             | SPM040203603                                | SPM040303603 | SPM040553603 | SPM040953003 | SPM041303603 | SPM041903903 | SPM043456803 | SPM043657203 |
|------------------------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Nominal Power (±3%)                | 20W   | 30W          | 55W          | 95W          | 130W         | 190W         | 345W         | 365W         |
| Number of cells in series          | 36  |              |              | 30           | 36           | 39           | 68           | 72           |
| Efficiency                         | 16,16%                                      | 17,89%       | 17,29%       | 18,47%       | 19,10%       | 19,16%       | 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     |
| 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     |
| 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     |
| 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 with bypass diode     | PV-LH0802                                   | PV-LH0806    | PV-LH0801    |              | PV-LH0808-1  | LH0808       | 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          | 195          | 72           | 72           | 29           | 26           | 26           |

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