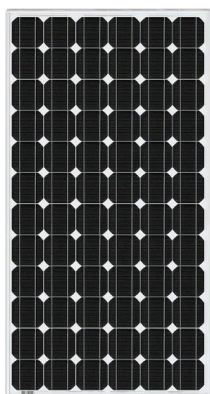


# BlueSolar Monocrystalline Panels

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                  |
| SPM042855603                                                          | 285W-56 cells Mono 1550 x 880 x 35 mm series 4c |               |               | 14.32         | 285                                      | 33.4              | 8.63              | 38.9                 | 9.08                  |
| 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                                                                | SPM 040203603                                   | SPM 040303603 | SPM 040553603 | SPM 040953003 | SPM 041303603                            | SPM 041903903     | SPM 042855603     | SPM 043456803        | SPM 043657203         |
| Nominal Power (±3%)                                                   | 20W                                             | 30W           | 55W           | 95W           | 130W                                     | 190W              | 285W              | 345W                 | 365W                  |
| Number of cells in series                                             | 36                                              | 36            | 36            | 30            | 36                                       | 39                | 56                | 68                   | 72                    |
| Efficiency                                                            | 16,16%                                          | 17,89%        | 17,29%        | 18,47%        | 19,10%                                   | 19,16%            | 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              |
| 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              |
| 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              |
| 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-LH0801     | PV-LH0801     | PV-LH0808-1                              | LH0808            | 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           | 195           | 72            | 72                                       | 29                | 26                | 26                   | 26                    |
| 1) STC (Standard Test Conditions): 1000 W/m², 25°C, AM (Air Mass) 1.5 |                                                 |               |               |               |                                          |                   |                   |                      |                       |