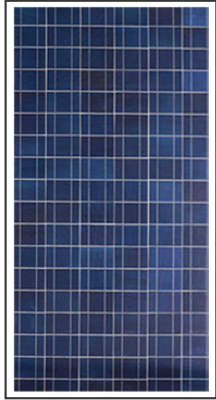


BlueSolar Polycrystalline Panels

www.victronenergy.com



BlueSolar Polycrystalline 175W

- 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.



MC4 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 |
| | | | P _{MPP} | V _{MPP} | I _{MPP} | V _{oc} | I _{sc} |
| | | Kg | W | V | A | V | A |
| SPP040201200 | 20W-12V Poly 440 x 350 x 25mm series 4a | 1.9 | 20 | 18.4 | 1.09 | 21.96 | 1.18 |
| SPP040301200 | 30W-12V Poly 655 x 350 x 25mm series 4a | 2.8 | 30 | 18.2 | 1.66 | 21.80 | 1.80 |
| SPP030501200 | 50W-12V Poly 540 x 670 x 25 mm series 3a | 4.3 | 50 | 18 | 2.78 | 22.2 | 3.09 |
| SPP040601200 | 60W-12V Poly 545 x 668 x 25mm series 4a | 4 | 60 | 19.3 | 3.12 | 23.10 | 3.37 |
| SPP030801200 | 80W-12V Poly 840 x 670 x 35 mm series 3a | 6.8 | 80 | 18 | 4.44 | 21.6 | 5.06 |
| SPP040901200 | 90W-12V Poly 780 x 668 x 30mm series 4a | 6.1 | 90 | 19.5 | 4.61 | 23.44 | 4.98 |
| SPP031001200 | 100W-12V Poly 1000 x 670 x 35 mm series 3a (2) | 8.9 | 100 | 18 | 5.56 | 21.6 | 6.32 |
| SPP031001201 | 100W-12V Poly 1000 x 670 x 35 mm series 3b (2) | 8.9 | 100 | 18 | 5.56 | 21.6 | 6.32 |
| SPP041751200 | 175W-12V Poly 1485 x 668 x 30mm series 4a | 12 | 175 | 18,3 | 9.56 | 21.9 | 10.24 |
| SPP032602000 | 260W-20V Poly 1640 x 992 x 40mm series 3b | 17 | 260 | 30 | 8.66 | 36.75 | 9.30 |
| SPP033202400 | 320W-24V Poly 1956 x 992 x 45 mm series 3a | 24 | 320 | 36 | 8.89 | 44,10 | 9.44 |
| SPP043302400 | 330W-24V Poly 1956 x 992 x 40mm series 4a | 22.5 | 330 | 37.3 | 8.86 | 44.72 | 9.57 |

| Module | SPP 040201200 | SPP 040301200 | SPP 030501200 | SPP 040601200 | SPP 030401200 | SPP 040901200 | SPP 0301001200 | SPP 031001201 | SPP 041751200 | SPP 032601200 | SPP 033202400 | SPP 043302400 |
|-------------------------------------|---|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| Nominal Power (± 3% tolerance) | 20W | 30W | 50W | 60W | 80W | 90W | 100W | 100W | 175W | 260W | 320W | 330W |
| Cell type | Polycrystalline | | | | | | | | | | | |
| Number of cells in series | 36 | | | | | | | | | 60 | 72 | 72 |
| Maximum system voltage (V) | 1000V | | | | | | | | | | | |
| Temperature coefficient of PMPP (%) | -0.45/°C | -0.45/°C | -0.48/°C | -0.45/°C | -0.48/°C | -0.45/°C | -0.48/°C | -0.48/°C | -0.45/°C | -0.47/°C | -0.47/°C | -0.45/°C |
| Temperature coefficient of Voc (%) | -0.35/°C | -0.35/°C | -0.34/°C | -0.35/°C | -0.34/°C | -0.35/°C | -0.34/°C | -0.35/°C | -0.35/°C | -0.34/°C | -0.34/°C | -0.35/°C |
| Temperature coefficient of Isc (%) | +0.04/°C | +0.04/°C | +0.037/°C | +0.04/°C | +0.037/°C | +0.04/°C | +0.037/°C | +0.037/°C | +0.04/°C | +0.045/°C | +0.045/°C | +0.04/°C |
| Temperature Range | -40°C to +85°C | | | | | | | | | | | |
| Surface Maximum Load Capacity | 200 kg/m ² | | | | | | | | | | | |
| Allowable Hail Load | 23 m/s, 7.53 g | | | | | | | | | | | |
| Junction Box Type | PV-LH0805 | PV-LH0806 | PV-LH0801 | PV-LH0806 | PV-LH0801 | PV-JH02 | PV-LH0808 | | PV-JB002 | | | |
| Length of Cable / connector | 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 | 520 | 320 | 100 | 200 | 20 | 120 | 20 | 20 | 80 | 20 | 19 | 50 |

1) STC (Standard Test Conditions): 1000 W/m², 25°C, AM (Air Mass) 1.5
 2) Cell appearance of model b slightly different from model a