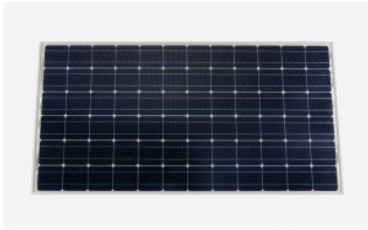


MONOCRYSTALINES

Victron Energy Monocrystalline Solar PV modules.



Panel Solar Victron Energy Monocrystalino



Panel Solar Monocrystalino Victron Energy

- 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.
- 2-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 aluminum 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.
- Pre wired quick-connect system with PV-ST01 connectors.

SPECIFICATIONS

| | SPM20-12 | SPM30-12 | SPM40-12 | SPM55-12 | SPM90-12 | SPM115-12 | SPM175-12 | SPM214-24 | SPM305-20 | SPM360-24 |
|------------------------|-----------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| Cells number | | | | 36 | | | | 72 | 60 | 72 |
| Cell type | Monocrystalline | | | | | | | | | |
| Maximum system voltage | 1000 V | | | | | | | | | |

Electrical specifications *

| | Pmax | 20 Wp | 30 Wp | 40 Wp | 55 Wp | 90 Wp | 115 Wp | 175 Wp | 215 Wp | 305 Wp | 360 Wp |
|------------------------|------|--------|---------|---------|--------|---------|---------|--------|---------|---------|---------|
| Rated power | | | | | | | | | | | |
| Power output tolerance | ± 3% | ± 3% | ± 3% | ± 3% | ± 3% | ± 3% | ± 3% | ± 3% | ± 3% | ± 3% | ± 3% |
| Maximum power voltage | Vmpp | 18,5 V | 18,7 V | 18,3 V | 18,8 V | 19,6 V | 19,0 V | 19,4 V | 37,4 V | 32,5 V | 38,4 V |
| Open circuit voltage | Voc | 22,6 V | 22,87 V | 22,45 V | 22,9 V | 24,06 V | 23,32 V | 23,7 V | 45,82 V | 39,7 V | 47,4 V |
| Maximum power current | Imp | 1,09 A | 1,61 A | 2,19 A | 2,94 A | 4,59 A | 6,04 A | 9,03 A | 5,75 A | 9,38 A | 9,38 A |
| Short circuit current | Isc | 1,19 A | 1,76 A | 2,40 A | 3,22 A | 5,03 A | 6,61 A | 9,89 A | 6,30 A | 10,27 A | 10,24 A |

Temperature ratings

| | | | | | | | | | | | |
|-----------------------------------|--------|---------------|--|--|--|--|--|--|--|--|--|
| Open circuit voltage coefficient | Tk Voc | -0,35 % / °C | | | | | | | | | |
| Short circuit current coefficient | Tk Isc | 0,04 % / °C | | | | | | | | | |
| Power coefficient | Tk P | -0,45 % / °C | | | | | | | | | |
| Operational temperature | | -40 to +85 °C | | | | | | | | | |

Other specifications

| | | | | | | | | | | |
|----------------|--|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| Dimensions | 440x350x25 | 560x350x25 | 425x668x25 | 545x668x25 | 780x668x30 | 1015x668x30 | 1485x668x30 | 1580x808x35 | 1640x992x35 | 1956x992x40 |
| Weight | 1,9 Kg | 2,2 Kg | 3,1 Kg | 4 Kg | 6,1 Kg | 8 Kg | 11 Kg | 15 Kg | 18 Kg | 22 Kg |
| Connection box | Connection box with by-pass diodes | | | | | | | | | |
| Cable | No Cable | No Cable | No Cable | No Cable | 900 mm | 900 mm | 900 mm | 900 mm | 900 mm | 900 mm |
| Connector | - | - | - | - | MC4 | MC4 | MC4 | MC4 | MC4 | MC4 |
| Warranty | Product: 2 years against manufacturing defects. Production: 90% during 10 years, 80% during 25 years. | | | | | | | | | |

* Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

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