



POLY-CRYSTALLINE SOLAR MODULE - 36 CELLS

OS50P

FEATURES

- High reliability with guaranteed 0 to +5W power output tolerance
- Passing mechanical load test of 5400 Pa to withstand heavier snow load and 2400 Pa to withstand wind pressure
- Strong frame, easy to install
- High transparency tempered glass: 3.2 mm, with durable glass surface
- Excellent performance under low light environment
- International quality and safety certifications



WARRANTIES

- 10 years limited product warranty
- 5 years at 95% of the minimal rated power output
- 10 years at 90% of the minimal rated power output
- 18 years at 85% of the minimal rated power output
- 25 years at 80% of the minimal rated power output





| ELECTRICAL CHARACTERISTICS | OS50P |
|-------------------------------------|--------|
| Nominal Output (pmax) [W] | 50 |
| Maximum Power Voltage [Vmp] | 17.72 |
| Flash Test Power Classification [W] | 0 / +5 |
| Current at Pmax (Imp) [A] | 2.822 |
| Open Circuit Voltage (Voc) [V] | 21.264 |
| Short Circuit Current (Isc) [A] | 3.17 |
| Cell Efficiency [%] | 15.1 |
| Module Efficiency [%] | 12.1 |

STC* (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, Air

| TEMPERATURE CHARACTERISTICS | |
|---------------------------------|------------------|
| NOCT** | 45±2 °C |
| Temperature Coefficient of Pmax | -0.47 %/°C |
| Temperature Coefficient of Voc | -0.346 %/°C |
| Temperature Coefficient of Isc | 0.036 %/°C |
| Operating Temperature | -40 °C to +85 °C |

NOCT**: Nominal Operation Cell Temperature Sun 800W/m²; Air 20°C; Wind speed 1m/s

| MECHANICAL CHARACTERISTICS | | DIMENSIONS |
|----------------------------|--|------------|
| Solar Cells | 36(4x9) polycrystalline cells 156x59 mm | |
| Font Cover | 3.2 mm thick, low iron tempered glass | |
| Back Cover | TPT (Tedlar-PET-Tedlar) | |
| Encapsulant | EVA (Ethylene vinyl acetate) | |
| Frame | Anodized aluminum alloy, double wall | |
| Diodes | 3 Bypass diodes serviceable | |
| Junction Box | IP65 rated | |
| Connector | MC4 Plug Type IV | |
| Cables | Length: 500mm / Section: 4.0 mm ² | |
| Dimension | 674 x 603 x 30 mm | |
| Weight | 3.8 kg | |
| Max. Load | Certified to 2400 Pa | |

Oviera Solar reserves the right to make specifications changes without any prior notice.
 This data sheet complies with the EN 50380 requirements
 July 2012 Oviera Solar Srl. All rights reserved.

