

## **MONO-CRYSTALLINE SOLAR MODULE - 72 CELLS**

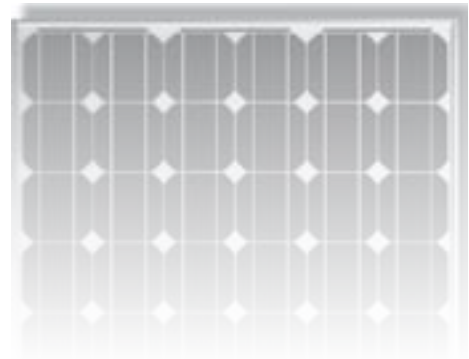
- **OS175M**
- **OS180M**
- **OS185M**
- **OS190M**

### **FEATURES**

- High reliability with guaranteed 0 to +5% 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
- Power series ranging from 170 to 200 watts meet different customers demands
- International quality and safety certifications

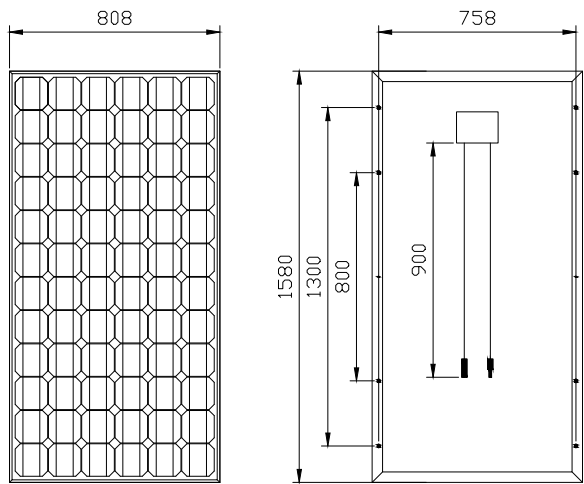
### **WARRANTIES**

- 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



| ELETRICAL CHARACTERISTICS*          | OS175M              | OS180M | OS185M | OS190M |
|-------------------------------------|---------------------|--------|--------|--------|
| Nominal Output (Pmax) [W]           | 175                 | 180    | 185    | 190    |
| Flash Test Power Classification [%] | 0 / +5              | 0 / +5 | 0 / +5 | 0 / +5 |
| Voltage at Pmax (Vmp) [V]           | 35.5                | 36     | 36     | 36.5   |
| Current at Pmax (Imp) [A]           | 4.93                | 5      | 5.14   | 5.21   |
| Open Circuit Voltage (Voc) [V]      | 43.3                | 43.9   | 43.9   | 44.5   |
| Short Circuit Current (Isc) [A]     | 5.23                | 5.3    | 5.45   | 5.52   |
| Maximum System Voltage [V]          | IEC: 1000 / UL: 600 |        |        |        |
| Maximum Series Fuse Rating [A]      | 12                  |        |        |        |
| Cell Efficiency [%]                 | 16.36               | 16.83  | 17.29  | 17.76  |
| Module Efficiency [%]               | 13.71               | 14.10  | 14.19  | 14.88  |

STC\* (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5

| TEMPERATURE CHARACTERISTICS       |   | DIMENSIONS  |  |
|-----------------------------------|---|---|--|
| NOCT**                            | 45±2 °C                                       |  |  |
| Temperature Coefficient of Pmax   | -0.45 %/°C                                    |   |  |
| Temperature Coefficient of Voc    | -0.35 %/°C                                    |   |  |
| Temperature Coefficient of Isc    | 0.05 %/°C                                     |   |  |
| Operating Temperature             | -40 °C to +85 °C                              |   |  |
| <b>MECHANICAL CHARACTERISTICS</b> |   |   |  |
| Solar Cells                       | 72(6x12) mono-cristalline cells 125 mm        |   |  |
| Font Cover                        | 3.2 mm thick, low iron tempered glass         |   |  |
| Back Cover                        | TPT (Tedlar-PET-Tedlar)                       |   |  |
| Encapsulant                       | EVA (Ethylene vinyl acetate)                  |   |  |
| Frame                             | Anodized aluminium alloy, double wall         |   |  |
| Diodes                            | 6 Bypass diodes serviceable                   |   |  |
| Junction Box                      | IP65 rated                                    |   |  |
| Connector                         | MC4 or compatible connector                   |   |  |
| Cables                            | Length: 900 mm / Section: 4.0 mm <sup>2</sup> |   |  |
| Dimension [mm]                    | 1580 x 808 x 45                               |   |  |
| Weight [kg]                       | 15.5  |   |  |
| Max. Load                         | Certified to 2400 Pa                          |   |  |

NOCT\*\*: Nominal Operation Cell Temperature Sun 800W/m<sup>2</sup>, Air 20°C, Wind speed 1m/s

#### CURRENT / VOLTAGE CHARACTERISTICS

