OSun-Earth



Anti-reflective glass

Reduces loss of light, which means you get a greater return on your output, even at low light.



Power Tolerance

Industry leading 0 to plus 5%, ensuring a greater return on your investment



Long Service Life

23 year old modules still operating at 90% of installed capacity.



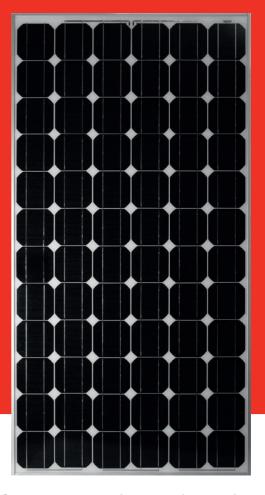
3 Bypass Diodes

Increase tolerance to shade. Maximising output



Dual Wall Frame

Designed with 45 years experience, Sun-Earth's framing increase's strength against wind and hail.





WARRANTY

- 10 Years For Product Defects In Materials & Workmanship
- 10 Years @ 90% Of Warranted Minimum Power
- 25 Years @ 80% Of Warranted Minimum Power

MONO-CRYSTALLINE

190W TDB125×125-72-P

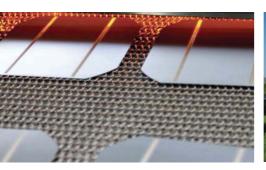
















ELECTRICAL CHARACTERISTICS

| | 190Wp |
|-------------------------------------|--------------|
| Maximum Power (Pmax) | 190W |
| Power Tolerance (%) | 0/+5 |
| Maximum Power Voltage (Vmp) | 36.6 |
| Maximum Power Current (Imp) | 5.20 |
| Open circuit Voltage (Voc) | 45.0 |
| Short circuit Current (Isc) | 5.42 |
| Module Efficiency | 14.9 |
| Maximum System Voltage (VDC) | 1000 |
| Temp coefficient Voc | -0.35% / 0°C |
| Temp coefficient lsc | +0.05% / 0°C |
| Temp coefficient Power | -0.45% / 0°C |
| Nominal Operating Cell Temp. (NOCT) | 45.5°C |

MECHANICAL CHARACTERISTICS

| Weight(kg) | 16 kg |
|-------------------------------------|-----------------------|
| Frame structure (Material, Corners) | Anodised Aluminium |
| Front side | Glass |
| Front glass thickness | 3.2mm |
| Encapsulant | EVA |
| Back side | TPT |
| Junction Box / Connector Type | Sun-Earth Ip65 / MC-4 |

CELLS

| Brand Name of Solar Cells | Sun-Earth |
|---------------------------|-----------------------|
| CellType | Mono Crystalline Cell |
| Cell Size | 125 x 125 mm |
| Cell Shape | Quasi Square |
| Number Cells | 72 in series |

ABSOLUTE MAXIMUM RATINGS

| Operating Temperature | -40°C~+85°C |
|--------------------------------|-------------|
| Storage Temperature | -40°C~+85°C |
| Maximum Load Capacity | 200 Kg/m2 |
| Maximum Hail Diameter @ 80Km/h | 25mm |

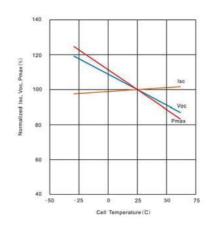
STANDARD TEST CONDITIONS

| AM | 1.5 |
|-------------|-----------|
| Irradiation | 1000 W/m2 |
| Tc | 25℃ |

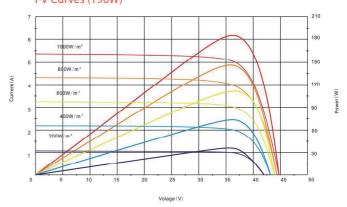
ORDERING

| Quantity | Pallet or Container |
|-----------|-------------------------|
| Pallet | 20 pieces per box/1 box |
| Container | 29 Pallets / 580 Pieces |

Temperature Dependence of Isc, Voc, Pmax

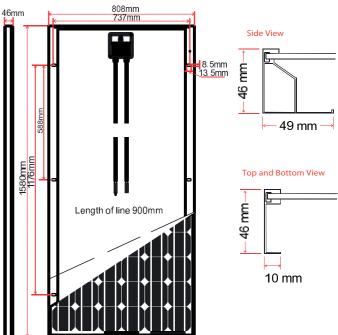


I-V Curves (190W)



Dimensions (tolerance±2mm)

Module Frame Design (190W)



WARRANTY

| Manufacturing | 10 Years |
|-----------------|----------|
| Performance 90% | 10 Years |
| Performance 80% | 25 Years |











