

VG - P150 – 165W

POLYCRYSTALLINE SOLAR MODULE

Characteristics & Performance

- Use of only certified materials at highest quality standards.
- The process of cell and module production is fully automated with 100% quality control and product traceability.
- Mechanical load capability up to 8000Pa.
- Excellent performance even during low solar radiation.
- Guaranteed positive tolerance -3 to +3% of power for each module.
- Salt mist corrosion protect ammonia resistance.
- Potential induced degradation free.

Quality & Environmental Certificates

- ISO 9001 quality standards.
- ISO 14001 environmental standards.
- OHSAS 18001 occupational health and safety standards.

25 Year Linear Power Guarantee

- Commercial – 10 years material and craft quality assurance.
- Performance
 - Power not less than 90% of power peak during 12 years
 - Power not less than 80% of power peak during 25 years



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Electrical Characteristics

| Maximum power (Pmax) | 150 W | 155 W | 160 W | 165 W |
|-----------------------------|--------|---------|--------|--------|
| Open-Circuit voltage (Voc) | 22.19V | 22.380V | 22.57V | 22.76V |
| Short-circuit Current (Isc) | 8.62A | 8.84A | 9.04A | 9.25A |
| Max-Power Voltage (Vmp) | 18.61V | 18.77V | 18.93V | 19.09V |
| Max-Power Current (Imp) | 8.06A | 8.26A | 8.45A | 8.64A |
| Module Efficiency (%) | 15.12 | 15.63 | 16.13 | 16.63 |

Temperature Coefficients (Tc)

| | |
|---|-------------|
| NOCT (Nominal Operating Cell Temperature) | 45±2°C |
| Temperature coefficient of Pmax | -0.442 %/°C |
| Temperature coefficient of Isc | 0.088 %/°C |
| Temperature coefficient of Voc | -0.352 %/°C |

Electrical Characteristics

| | |
|---------------|---------------------------------|
| Dimensions | 1478x674x35 mm |
| Weight | 11.6 kg |
| Frame | Anodized aluminum alloy |
| Front Glass | High transmission glass, 3.2 mm |
| Cells | 36 pcs. |
| Junction Box | 3 by-pass diodes |
| Output Cables | TUV certified 4mm ² |

System Design

| | |
|------------------------|---------------|
| Maximum System Voltage | 1000 V |
| Operating Temperature | -40°C to 85°C |
| Series Fuse Rating | 15 A |
| Mechanical load | ≥5400Pa |
| Application class | A |

Physical data (unit: mm)

