

## VG- P310 – 335W

### 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.
- Heavy load mechanical resistance: TUV certified (5400 Pa tested against snow and 2400 Pa tested against wind).
- Excellent performance even during low solar radiation.
- Guaranteed positive tolerance 0 / +3% of power for each module.

#### Quality & Environmental Certificates

- ISO 9001 quality standards and ISO 14001 environmental standards.
- OHSAS 18001 occupational health and safety standards.
- IEC 61215 and IEC 61730 Class A certifications.
- Conformity to CE.



#### 25 Year Linear Power Guarantee

- Commercial – 12 years on material and manufacturing defects
- Performance
  - Power not less than 90% of power peak during 10 years
  - Power not less than 80% of power peak during 25 years

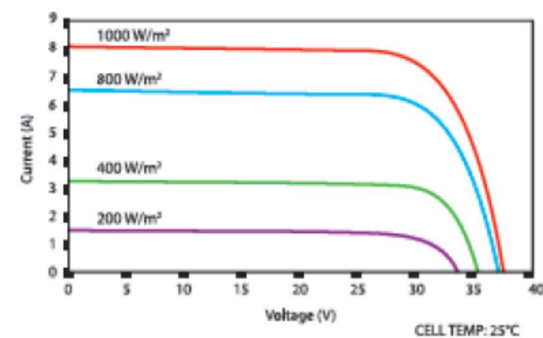


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### Maximum power (Pmax)

	310W	315W	320W	325W	330 W	335 W
Open-Circuit voltage (Voc)	44.80V	44.98V	45.15V	45.32V	45.49V	45.66V
Short-circuit Current (Isc)	8.79A	8.88A	8.98A	9.08A	9.17A	9.27A
Max-Power Voltage (Vmpp)	37.75V	37.94V	38.12V	38.30V	38.48V	38.67V
Max-Power Current (Imp)	8.21A	8.30A	8.39A	8.49A	8.58A	8.66A
Module Efficiency(%)	15.98	16.23	16.49	16.75	17.01	17.26

### Various Irradiance Levels



### Temperature Coefficients (Tc)

NOCT (Nominal Operating Cell Temperature)	45±2°C
Temperature coefficient of Pmax	-0.41 %/°C
Temperature coefficient of Isc	0.05 %/°C
Temperature coefficient of Voc	-0.32 %/°C

### Mechanical Characteristics

Dimensions	1956 mm x/ 992 mm/40 or 45 mm
Weight	22.5 kg
Frame	Aluminum alloy
Front Glass	Low iron tempered glass, 3.2 mm
Cells	156x156 mm; 6x12 pcs.
Junction Box	IP67, combined with by-pass diodes
Output Cables	Solar cable: cross area 4mm <sup>2</sup> , length 1000 mm

### Operating conditions

Maximum System Voltage	1000 VDC
Operating Temperature	-40°C to 85°C
Series Fuse Rating	15 A
Hail Safety Impact Velocity	25 mm to 23 m/s
Fire Safety Classification IEC 61730	Class C
Static Load Wind/Snow	5400 Pa

### Physical data (unit: mm)

