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Solar Panel Guide Specification Data Sheet

**Sunceco
SEP 330-340 HC
SEP 335 HC**

Also available on the web at
EnergyPal.com/sunceco-solar-panels/sep-335-hc

330 W – 340 W Poly-crystalline Solar Module



Enhanced Reliability and Power Output

- More internal reflection, better utilization of sunlight, more power output
- Enhanced module efficiency up to 17.1 %
- Innovative half-cut cell technology
- Less power output loss with new module circuit design
- Lower internal current, excellent anti-hot-spot performance
- Low NOCT & low temperature coefficient

Robust Design

- Strong anodized aluminum alloy frame
- Certified by TÜV to withstand up to 2400 Pa wind load and up to 5400 Pa snow load
- Easy installation and minimal maintenance with compatibility to industry standard inverters and mounting systems

Certificates



Warranty

10 Years: Manufacturing Warranty

12 Years Warranty: 90% Power Output

25 Years Warranty: 80% Power Output

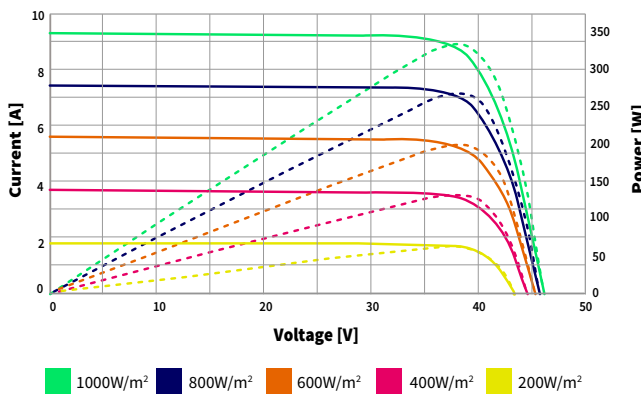
Mechanical Characteristics

| | |
|--------------------------|-------------------------------------|
| Cell type | Poly-crystalline |
| Cell Dimensions | 156.75 × 156.75 mm, half-cut |
| Cell Arrangement | 72 (6 × 12) |
| Weight | 23 kg |
| Module Dimensions | 2000 × 992 × 40 mm |
| Glass | 3.2 mm, high transmission, tempered |
| Connector | MC4 compatible |
| Cable Length | 300 mm |
| Cable Cross-section Size | 4 mm ² |
| No. of Bypass Diodes | 3/6 |

Electrical Characteristics

| SOLAR CELLS | | POLY-CRYSTALLINE 156.75 × 156.75MM 72 PCS. (6×12) – 5 BUS BARS | | |
|--|---------------------------------|--|------------|--|
| Model | SEP 330 HC | SEP 335 HC | SEP 340 HC | |
| Performance at Standard Test Conditions (STC): 1000 W/m ² , 25°C, AM 1.5, positive power tolerance 0/+3 % | | | | |
| Maximum Power (Pmax) | 330 Wp | 335 Wp | 340 Wp | |
| Operating Voltage (Vmpp) | 37.7 V | 38.0 V | 38.3 V | |
| Operating Current (Impp) | 8.76 A | 8.82 A | 8.89 A | |
| Open-Circuit Voltage (Voc) | 45.9 V | 46.2 V | 46.4 V | |
| Short-Circuit Current (Isc) | 9.27 A | 9.34 A | 9.40 A | |
| Module Efficiency | 16.6 % | 16.9 % | 17.1 % | |
| Performance at Nominal Operating Cell Temperature (NOCT) : 800 W/m ² , 20°C, AM 1.5, wind speed 1m/s | | | | |
| Maximum Power (Pmax) | 243 Wp | 247 Wp | 251 Wp | |
| Operating Voltage (Vmpp) | 34.6 V | 34.9 V | 35.1 V | |
| Operating Current (Impp) | 7.04 A | 7.09 A | 7.15 A | |
| Open-Circuit Voltage (Voc) | 42.3 V | 42.6 V | 42.8 V | |
| Short-Circuit Current (Isc) | 7.51 A | 7.56 A | 7.61 A | |
| Temperature Coefficient | | | | |
| Temperature Coefficient at Pmax | - 0.40 % / °C | | | |
| Temperature Coefficient at Voc | - 0.31 % / °C | | | |
| Temperature Coefficient at Isc | + 0.06 % / °C | | | |
| Nominal Operating Cell Temperature | 45 ± 2 °C | | | |
| Operating conditions | | | | |
| Maximum System Voltage | DC1000 V (IEC) / DC1500 V (IEC) | | | |
| Operating Temperature | -40 °C to 85 °C | | | |
| Maximum Series Fuse | 15 A | | | |
| Static Loading | 5400 Pa | | | |
| Conductivity at Ground | ≤ 0.1 Ω | | | |
| Resistance | ≥ 100 MΩ | | | |
| Safety Class | II | | | |

I-V Curves at different irradiance



I-V Curves at different temperature

