

ENGINEERING EXCELLENCE

- Built exclusively with Suniva's premium ARTisun
 Select cells, providing one of the highest power outputs per square meter at an affordable price
- Suniva is a U.S.- based company spun out from the Georgia Tech University Center of Excellence in Photovoltaics; one of only two such research centers in the U.S.
- Suniva's state-of-the art manufacturing and module lab facilities feature the most advanced equipment and technology

QUALITY & RELIABILITY

- Suniva Optimus modules are manufactured and warranted to our specifications assuring consistent high performance and high quality.
- Rigorous in-house quality management tests beyond standard UL and IEC standards
- Produced in an ISO 9001: 2008 certified facility
- Performance longevity with advanced polymer backsheet
- Passed the most stringent salt spray tests based on IEC 61701
- Passed enhanced stress tests¹ based on IEC 61215 conducted at Fraunhofer ISE²
- Certified PID free by PV Evolution Labs (PVEL)
- PAN files are independently validated



SUNIVA OPTIMUS® SERIES Monocrystalline Solar Modules

OPT SERIES: OPT 60 CELL MODULES (BLACK FRAME)

Optimus® modules are known for their superior quality and long-term reliability. These high-powered modules consist of Suniva's premium ARTisun® Select cell technology and are designed and manufactured in the U.S.A. using our pioneering ion implantation technology. Suniva's high power-density Optimus modules provide excellent performance and value.

FEATURES

Contains premium ARTisun Select cell technology - over 19%



- Extensive materials testing and certifications safeguard reliability
- Marine grade aluminum frame with hard anodized coating
- 👏 Buy America-compliant upon request
- 🌏 Qualifies for U.S. EXIM financing
- 👂 System and design services available
- Industry leading linear warranty: 10 year warranty on workmanship and materials;
 25 year linear performance warranty delivering 80% power at STC

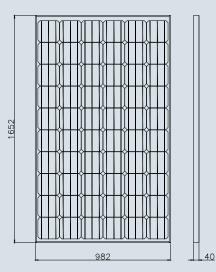
CERTIFICATIONS

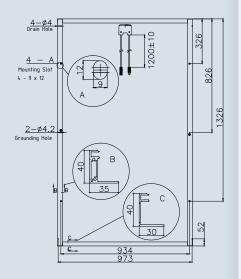




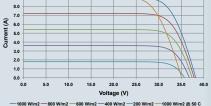
AS5033 Compliant

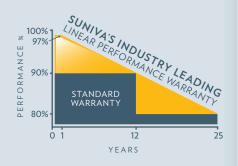






Suniva OPT260 Black Back Sheet: 260 Watt, 60 Cell Solar Module Current-Voltage (IV) as a Function of Insolation (W/m²) and Temperature





JANUARY 17, 2014 (REV. 16) [SAMD_0016]

OPTIMUS SERIES: OPT 60 CELL MODULES

ELECTRICAL DATA (NOMINAL)

The rated power may only vary by +/- 2.5Wp and all other electrical parameters by \pm 5%

| Model Number | OPT 255-60-4-1B0 | OPT 260-60-4-1B0 | OPT 265-60-4-1B0 | OPT 270-60-4-1B0 |
|-----------------------------------|---------------------|---------------------|---------------------|---------------------|
| Power Classification (Pmax) | 255 W | 260 W | 265 W | 270 W |
| Module Efficiency (%) | 15.71% | 16.02% | 16.33% | 16.63% |
| Voltage at Max. Power Point (Vmp) | 30.20 V | 30.50 V | 30.70 V | 31.00 V |
| Current at Max. Power Point (Imp) | 8.45 A | 8.52 A | 8.64 A | 8.70 A |
| Open Circuit Voltage (Voc) | 38.10 V | 38.30 V | 38.30 V | 38.40 V |
| Short Circuit Current (Isc) | 8.96 A | 9.01 A | 9.12 A | 9.18 A |

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with AM 1.5 spectra at 25°C.

CHARACTERISTIC DATA

| Type of Solar Cell | High-efficiency ARTisun Select cells of 156 x 156 mm (6 in.) |
|--------------------|---|
| Frame | Black anodized aluminum alloy |
| Glass | Tempered (low-iron), anti-reflective coating |
| Junction Box | NEMA IP67 rated; 3 internal bypass diodes |
| Cable & Connectors | 12 AWG (4 mm ²) PV Wire cable with multiple connector options available; cable length approx. 1200 mm |

MECHANICALS

| Cells / Module | 60 (6 x 10) |
|--------------------------|--------------------------------------|
| Module Dimensions | 1652 x 982 mm (65.04 x 38.66 in.) |
| Module Thickness (Depth) | 40 mm (1.57 in.) |
| Approximate Weight | 17.9 +/- 0.25 kg. (39.5 +/- 0.5 lb.) |

TEMPERATURE COEFFICIENTS

| Voltage | ß, Voc (%/°C) | -0.335 |
|----------|----------------|--------|
| Current | a, Isc (%/°C) | +0.047 |
| Power | γ, Pmax (%/°C) | -0.420 |
| NOCT Avg | (+/- 2 °C) | 46.0 |

LIMITS

| Max. System Voltage | 1000 VDC for IEC, 1000 VDC for UL |
|------------------------------|--|
| Max Series Fuse Rating | 15 Amps |
| Operating Module Temperature | -40°C to +85°C (-40°F to +185°F) |
| Storm Resistance/Static Load | Tested to IEC 61215 for loads of 5400 Pa (113 psf); hail and wind resistant |

Suniva® reserves the right to change the data at any time. View manual at suniva.com. ¹UV 90 kWh, TC 400, DH 2000. ²Tests were conducted on module type OPT 60 silver frame.

Please read installation manual before installing or working with module.

| Product | Modules per pallet | Pallets per Container | Total Modules |
|-------------------------------------|-----------------------|-----------------------------|------------------|
| OPT - 60 cell (silver and black) | 25 | 28 | 700 |

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