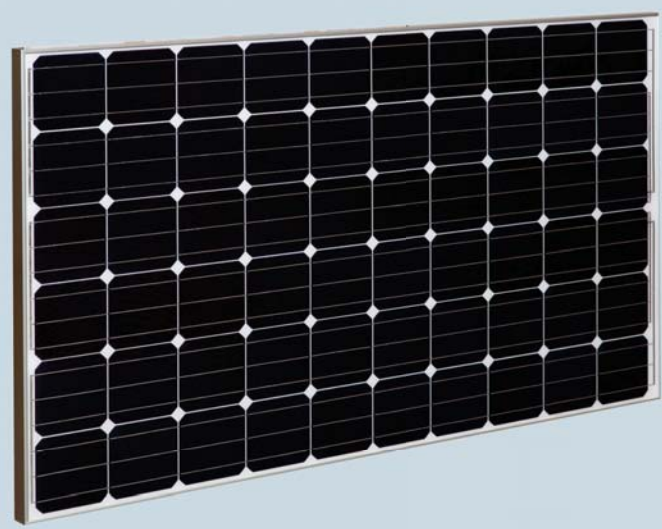




**High-quality and high-efficiency
PV yields sensible solar**

SUNIVA OPTIMUS® SERIES MONOCRYSTALLINE SOLAR MODULES



OPTXXX-60-4-100 (60 CELL MODULE)

The Optimus® modules consist of Suniva's latest technology: ARTisun® Select. These superior monocrystalline cells are designed and manufactured in the U.S.A. using our proprietary low-cost processing techniques. Engineered with our pioneering ion implantation technology, high power-density Optimus modules provide excellent value, performance and reliability.

Certifications:



Engineering Excellence

- Built exclusively with Suniva's highest-efficiency ARTisun Select cells, providing one of the highest power outputs per square meter at an affordable manufacturing cost
- Suniva's state-of-the art manufacturing facility features the most advanced equipment and technology
- 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.)

Features

- Contains the latest ARTisun Select cell technology - over 19%
- Positive only power tolerance ensures predictable output
- Marine grade aluminum frame with hard anodized coating
- Industry leading linear warranty (10 year warranty on workmanship and materials; 25 year linear performance warranty delivering 80% power at STC)
- Buy America compliant upon request
- Qualifies for U.S. EXIM financing
- System and design services available

Quality & Reliability

- Suniva Optimus modules are manufactured and warranted to our specifications assuring consistent high performance and quality worldwide.
- Rigorous quality management
 - Performance longevity with advanced polymer backsheet
 - Produced in an ISO 9001: 2008 certified facility
 - Passed the most stringent salt spray test (Severity 6) based on IEC 61701
 - Passed enhanced stress tests¹ based on IEC 61215 conducted at Fraunhofer ISE²
 - Certified PID free²
 - Ask about our validated PAN files

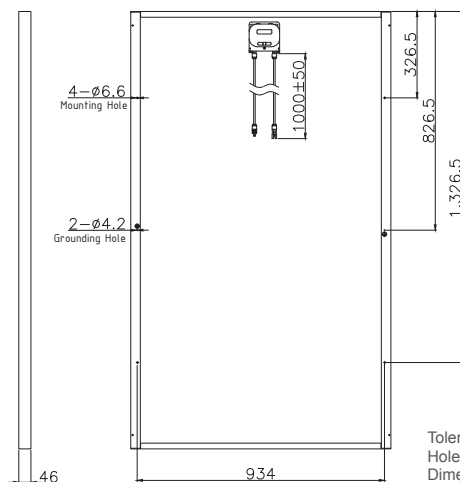
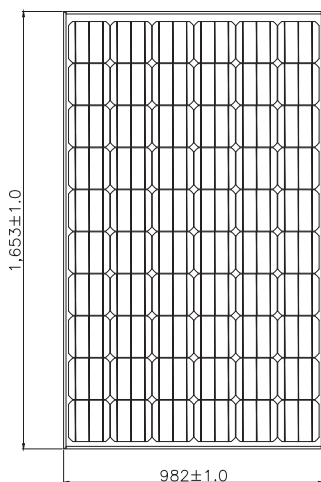
OUR PRODUCTS:

Monocrystalline Modules
OPTIMUS SERIES 60 cell
OPTIMUS SERIES 72 cell

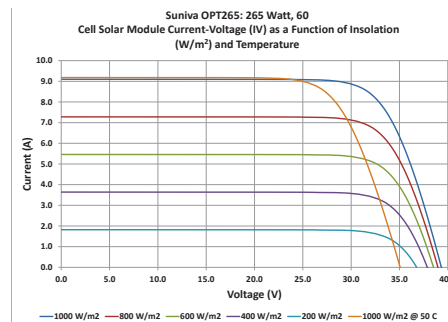
Monocrystalline Cells
19%+ efficiency

Multicrystalline Modules
MV SERIES 60 cell
MV SERIES 72 cell

Balance of Systems Solutions (BOSS)
Racking, Inverters, Batteries, Energy Storage Appliances and EV Chargers



Tolerances ± 1 mm
Hole Tolerances Vary
Dimensions in mm



ELECTRICAL DATA (NOMINAL)

The rated power may only vary by -0/+4.99Wp and all other electrical parameters by ± 5%

| Power Classification | Pmax (W) | 250 | 255 | 260 | 265 |
|-----------------------------|----------|--------------|--------------|--------------|--------------|
| Module efficiency | % | 15.40 | 15.71 | 16.02 | 16.33 |
| Model Number | OPT | 250-60-4-100 | 255-60-4-100 | 260-60-4-100 | 265-60-4-100 |
| Voltage at Max. Power Point | Vmp (V) | 29.60 | 30.00 | 30.20 | 30.70 |
| Current at Max. Power Point | Imp (A) | 8.44 | 8.50 | 8.60 | 8.64 |
| Open Circuit Voltage | Voc (V) | 37.70 | 37.90 | 38.10 | 38.30 |
| Short Circuit Current | Isc (A) | 8.98 | 9.05 | 9.08 | 9.12 |

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

DIMENSIONS AND WEIGHT

| | |
|--------------------------|-----------------------------------|
| Cells / Module | 60 (6x10) |
| Module Dimensions | 1653 x 982 mm (65.08 x 38.66 in.) |
| Module Thickness (Depth) | 46 mm (1.81 in.) |
| Approximate Weight | 18.69 kg (41.22 lbs.) |

CHARACTERISTIC DATA

| | |
|-----------------------------------|--|
| Type of Solar Cell | High-efficiency ARTisun® Select monocrystalline cells of 156 x 156 mm (6 in.) |
| Frame | Silver anodized aluminum alloy; black frame available by custom order |
| Glass | Tempered (low-iron), anti-reflective coating |
| Junction Box ³ | NEMA IP65 rated; 3 internal bypass diodes |
| Cable & Connectors | 4.0 mm ² cable with Tyco SolarLok connectors; cable length approximately 1000 mm |
| Hardware (Available Upon Request) | Grounding screws: (2) #10-32 12.7 mm (#10-32 x 0.5 in.) Stainless steel flat washers: (4) 5 x 10 x 1 mm (0.2 in. ID x 0.394 in. OD x 0.030 in.) |

TEMPERATURE COEFFICIENTS

| | | |
|----------|----------------|--------|
| Voltage | β, Voc (%/°C) | -0.335 |
| Current | α, Isc (%/°C) | +0.047 |
| Power | γ, Pmax (%/°C) | -0.450 |
| NOCT Avg | (+/- 2 °C) | 46.0 |

LIMITS

| | |
|------------------------------|--|
| Max. System Voltage | 1000 VDC for IEC (600 VDC for UL) |
| Operating Module Temperature | -40°C to +85°C |
| Storm Resistance/Static Load | Tested to IEC 61215 for loads up to 5400 Pa; 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. ³Tyco or MC4 - see sales representative.

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Please recycle.

