

From the world leading
PV research lab comes
sensible solar.



SUNIVA OPTIMUS® SERIES MONOCRYSTALLINE SOLAR MODULES



OPTXXX-72-4-100 (72 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':



UL 1703



61215
61730-2



CEC



AS5033
Compliant

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

- Module conversion efficiency up to 16+%
- Positive only power tolerance ensures predictable output
- Industry leading linear warranty (10 year warranty on workmanship and materials; 25 year linear performance warranty delivering 80% power at STC)
- Frame consists of marine grade aluminum with anodized coating
- Buy American compliant
- Qualifies for U.S. EXIM financing

Quality & Reliability

Suniva Optimus modules are manufactured and warranted to our specifications assuring consistent high performance and quality worldwide. Our specifications include:

- Rigorous quality management
- Performance longevity with advanced polymer backsheet
- Electrical tests and visual inspections
- Produced in an ISO 9001: 2008 certified facility
- System and design services available; ask about our Balance of System Solutions (BOSS)

USA Headquarters

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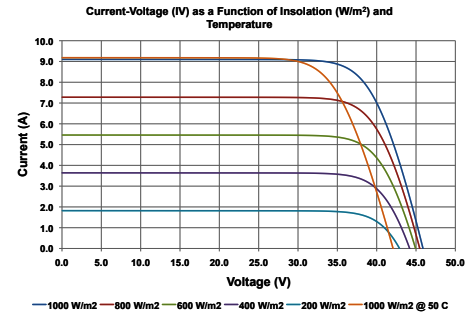
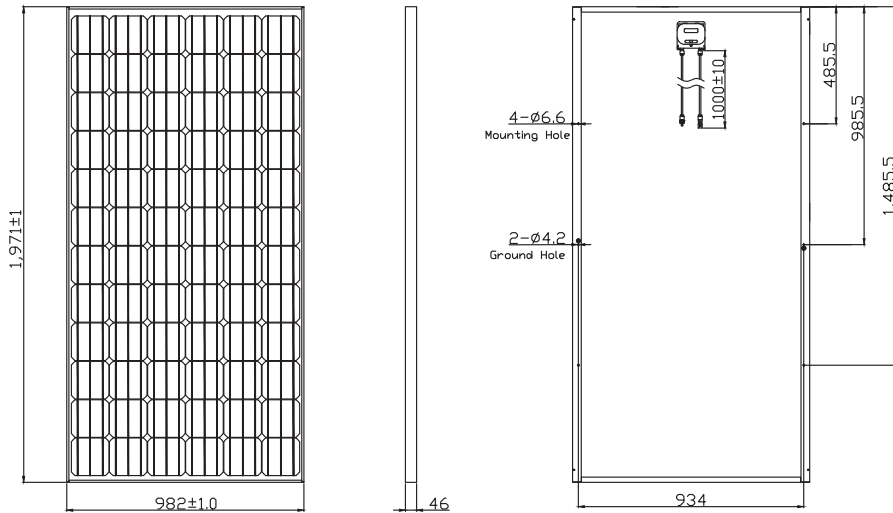
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² Tolerances ± 1 mm
Hole Tolerances Vary
Dimensions in mm

ELECTRICAL DATA (NOMINAL)

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

Power Classification	Pmax (W)	300	305	310	315
Model Number	OPT	300-72-4-100	305-72-4-100	310-72-4-100	315-72-4-100
Voltage at Max. Power Point	Vmp (V)	36.00	36.10	36.20	36.50
Current at Max. Power Point	Imp (A)	8.34	8.45	8.56	8.62
Open Circuit Voltage	Voc (V)	45.50	45.60	45.70	45.90
Short Circuit Current	Isc (A)	8.90	9.00	9.06	9.10

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

DIMENSIONS AND WEIGHT

Cells / Module	72 (6x12)
Module Dimensions	1971 x 982mm (77.6 x 38.7 in.)
Module Thickness (Depth)	46mm (1.80 in.)
Approximate Weight	23kg (50.70 lbs.)

CHARACTERISTIC DATA

Type of Solar Cell	High-efficiency ARTisun Select cells of 156 x 156mm (6 in.)
Frame	Silver anodized aluminum alloy
Glass	Tempered (low-iron), anti-reflective coating (EN 12150); salt spray and acid spray resistance tested (EN1096-2 ¹)
Junction Box	Tyco; NEMA IP67 rated; IEC & UL listed; 3 internal bypass diodes
Cable & Connectors	4 mm ² cable with Tyco SolarLok connectors; cable length approximately 1000 mm
Hardware Included	Grounding screws: (2) #10 12.7 mm (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 ¹	Tested to IEC 61215 for loads of 2400 Pa; hail and wind resitant

Suniva® reserves the right to change the data at any time.

¹Some certifications may be pending.

²View manual at suniva.com/ourproducts.php



Please recycle.