



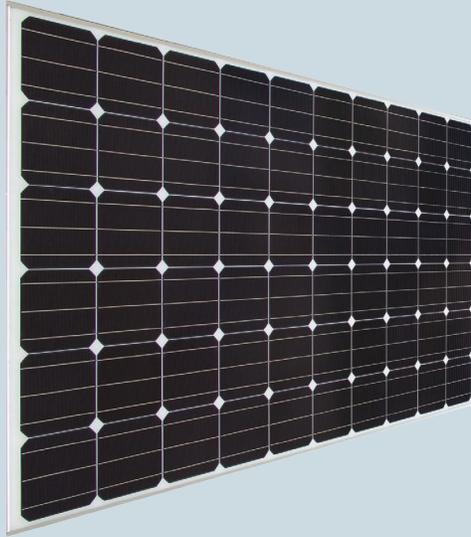
**High-quality
PV**



Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 06/10/13

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

Multicrystalline Modules
MV SERIES 60 cell
MV SERIES 72 cell

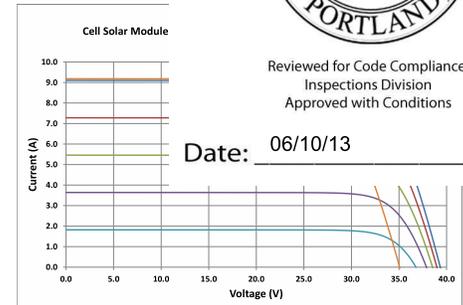
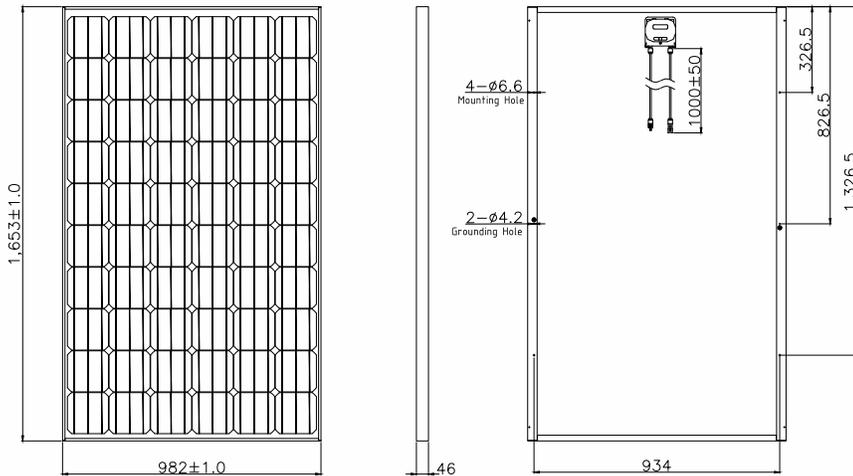
Monocrystalline Cells
19%+ efficiency

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



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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	Tyco; 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.

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Please recycle.

