

SUNIVA OPTIMUS® SERIES Monocrystalline Solar Modules

OPT SERIES: OPT 72 CELL MODULES (SILVER 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. and North America using our pioneering ion implantation technology. Suniva's high power-density Optimus modules provide excellent performance and value.

FEATURES

Utilizes our premier American-made cell technology, ARTisun Select®



- Superior performance and reliability; enhanced stress tests conducted at Fraunhofer ISE
- 🏓 Module families ranging from 325-340W
- 🌔 Positive only power tolerance
- Marine grade aluminum frame with hard anodized coating
- 🐎 Certified PID-free by PV Evolution Labs (PVEL)
- 🐎 Made in North America
- 음 Qualifies for Ex-Im Financing
- 음 1000V UL
- 25 year linear power warranty;
 10 year product warranty

CERTIFICATIONS





www.suniva.com

ENGINEERING EXCELLENCE

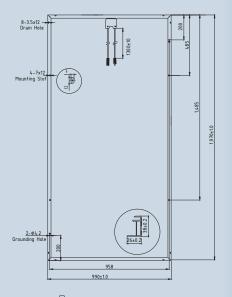
- Built exclusively with Suniva's premium ARTisun
 Select cells, providing one of the highest power outputs per square meter at an affordable price
- The leading US-born, US-owned crystalline silicon cell and module manufacturer, spun out of Georgia Tech's University Center of Excellence in Photovoltaics; 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

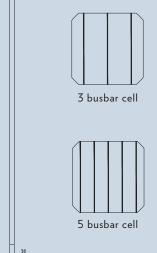
QUALITY & RELIABILITY

- 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
- Performance longevity with advanced polymer backsheet
- UL1703 listed Type 2 PV module
- Passed the most stringent salt spray tests based on IEC 61701
- Passed enhanced stress tests¹ based on IEC 61215 conducted at Fraunhofer ISE²
- PAN files are independently validated

MANUFACTURED IN

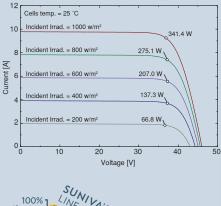
Georgia & Michigan





PV module: Suniva, OPT340-72-4-100 Current-Voltage (IV) as a

Function of Isolation (W/m²) and Temperature





PLEASE RECYCLE JULY 9, 2015 (REV. 5) [SAMD_0051]

OPTIMUS SERIES: OPT 72 CELL MODULES

ELECTRICAL DATA (NOMINAL)

The rated power may only vary by -0/+3% and all other electrical parameters by \pm 5%

Module Type	OPT325- 72-4-100	OPT330- 72-4-100	OPT335- 72-4-100	OPT340- 72-4-100
Power Classification (Pmax)	325 W	330 W	335 W	340 W
Module Efficiency (%)	16.66%	16.92%	17.18%	17.43%
Voltage at Max. Power Point (Vmp)	37.5 V	37.6 V	37.7 V	37.8 V
Current at Max. Power Point (Imp)	8.67 A	8.78 A	8.89 A	8.99 A
Open Circuit Voltage (Voc)	45.8 V	45.9 V	45.9 V	46.0 V
Short Circuit Current (Isc)	9.42 A	9.54 A	9.66 A	9.78 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, 3 and 5 busbar options available		
Frame	Silver anodized aluminum alloy		
Glass	Tempered (low-iron), anti-reflective coating		
Junction Box	NEMA IP67 rated; 6 internal diodes		
Cable & Connectors	12 AWG (4 mm ²) PV Wire with multiple connector options available; cable length 1300 mm		

MECHANICALS

Cells / Module	72 (6 x 12)
Module Dimensions	1970 x 990 mm (77.6 x 39 in.)
Module Thickness (Depth)	38 mm (1.5 in.)
Approximate Weight	23 kg (50.7 lbs.)

TEMPERATURE COEFFICIENTS

Voltage	β, Voc (%/°C)	-0.335
Current	α, 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 2400 Pa (50 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:	Modules per full 53 ft. truck load, double stacked	57 N
OPT - 72 cell	22	660	

HEADQUARTERS

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