

## SUNIVA ARTisun® SERIES MONOCRYSTALLINE SOLAR MODULES

ART SERIES: ART 60 CELL MODULES (BLACK FRAME)

### ENGINEERING EXCELLENCE

- **The leading US-born, US-operated 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 ARTisun 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 1 PV module
- Passed the most stringent salt spray and ammonia tests based on IEC 61701 and IEC 62716
- Passed enhanced stress tests<sup>1</sup> based on IEC 61215

**ARTisun® Series modules are the newest member of Suniva's highly-regarded monocrystalline product family. Joining Suniva's premium-power, US-made, Optimus series modules, the ARTisun Series** builds on our legacy of manufacturing high-quality solar modules to maximize performance and price. Designed for projects with lower power-density requirements than our Optimus Series, the globally-produced ARTisun Series modules provide greater performance than commodity multicrystalline technology at highly-competitive prices.

### FEATURES

- ☀ Superior performance and reliability
- ☀ Module families ranging from 265-275W
- ☀ Marine grade aluminum frame with hard anodization
- ☀ IP68 rated junction box
- ☀ Certified PID-free
- ☀ 1000V UL and IEC
- ☀ 25 year linear power warranty;  
10 year product warranty

### CERTIFICATIONS



# ARTisun Series: ART 60 Cell Modules

## ELECTRICAL DATA (NOMINAL)

The rated power may only vary by -2.5W/+5W and all other electrical parameters by ± 5%

Model Number	ART265-60-4-8B0	ART270-60-4-8B0	ART275-60-4-8B0
Power Classification (Pmax)	265 W	270 W	275 W
Module Efficiency (%)	16.3%	16.6%	16.9%
Voltage at Max. Power Point (Vmp)	30.5 V	30.8 V	31.1 V
Current at Max. Power Point (Imp)	8.69 A	8.77 A	8.85 A
Open Circuit Voltage (Voc)	38.1 V	38.3 V	38.5 V
Short Circuit Current (Isc)	9.22 A	9.28 A	9.34 A

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> with AM 1.5 spectra at 25°C.

## CHARACTERISTIC DATA

Type of Solar Cell	High-efficiency monocrystalline cells
Frame	Anodized aluminum alloy
Glass	3.2mm (0.13 in.) anti-reflective (AR) coated, tempered glass
Junction Box	IP68 rated (3 bypass diodes)
Cable & Connectors	12 AWG (4 mm <sup>2</sup> ) PV Wire cable with Amphenol H4 connectors; cable length approx. 1000 mm

## MECHANICALS

Cells / Module	60 (6 x 10)
Module Dimensions	1640 × 992mm (64.6 × 39.1 in.)
Module Thickness (Depth)	35 mm (1.37 in.)
Approximate Weight	18.2 +/- 0.25 kg. (40.1 +/- 0.5 lb.)

## TEMPERATURE COEFFICIENTS

Voltage	β, Voc (%/°C)	-0.34
Current	α, Isc (%/°C)	0.060
Power	γ, Pmax (%/°C)	-0.41
NOCT Avg	(+/- 2 °C)	45.0

## LIMITS

Max. System Voltage	1000V UL and IEC
Max Series Fuse Rating	20 Amps
Operating Module Temperature	-40°C to +85°C (-40°F to +185°F)
Storm Resistance/Static Load	Tested to IEC 61215 for 5400Pa positive and 3800Pa negative loads; hail and wind resistant

Suniva® reserves the right to change the data at any time. View installation manual at suniva.com.

<sup>1</sup>UV 90 kWh, TC 400, DH 2000.

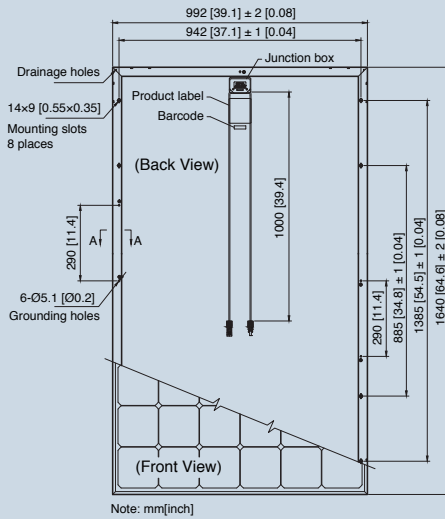
Please read installation manual before installing or working with module.

Container	20' GP	40' HC	53' Truck
Pieces per pallet	30	30	30
Pallets per container	6	28	30
Pieces per container	180	840	900

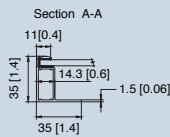
GP = General Purpose; HC = High Cube

**HEADQUARTERS**  
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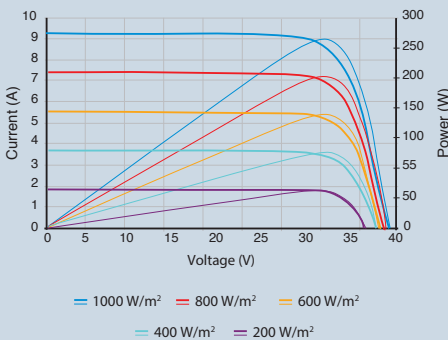
  
The Brilliance of Solar Made Sensible®



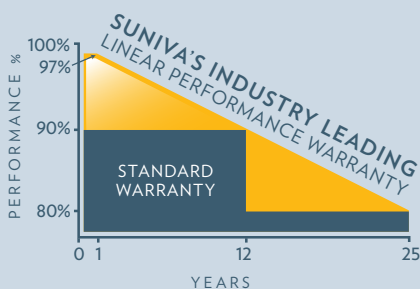
Note: mm[inch]



Current-Voltage & Power-Voltage Curve (275W)



Excellent performance under weak light conditions: at an irradiance intensity of 200 W/m<sup>2</sup> (AM 1.5, 25 °C), **96.5%** or higher of the STC efficiency (1000 W/m<sup>2</sup>) is achieved



 PLEASE RECYCLE

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