

SILVANTIS® R-SERIES: 335 W TO 360 W 72-Cell High Wattage Modules

SunEdison introduces the next generation of high performance solar modules based on innovative CCz monocrystalline cells with PERC technology. Best-in-class efficiency coupled with durability and superior design elements provide products with maximum long-term investment performance. At the same time the R-series minimizes cost incurred throughout the products lifecycle, such as installation expense and overall operation and maintenance.

SunEdison is a leader in utility-scale solar systems with over two and a half-million Silvantis modules deployed in some of the world's harshest climates and most remote locations. This experience, coupled with over 50 years of expertise in silicon technology and innovation enables SunEdison to design and produce highly advanced solar solutions.



SILVANTIS ADVANTAGE

- Industry leading 18.5% panel efficiency with positive power tolerance
- PID-free: multi-MPPT transformerless compatible
- Based on SunEdison's proprietary CCz technology
- Higher return on investment with more watts-per-cell
- Utility-grade manufacturing: ISO 1400, ISO 9001, and 100% EL inspection

QUALITY & SAFETY

- Industry leading PID test conditions:
 - » 96 hours, 85 C, 85%, -1 kV
- IEC certified by TÜV SÜD:
 - » 61215 long-term operation in a variety of climates including 5400 Pa snow loading and hail testing
 - » 61730 to ensure electrical safety
 - » 61701 Level 1 salt mist corrosion resistant for marine regions (pending)
 - » 62716 ammonia testing for agricultural environments (pending)
- 1000 V UL 1703 listed by CSA for US and Canada
- Automotive grade TS 16949 & AQL Level II-0.4 manufacturing quality
- MCS certified for BABT for the UK

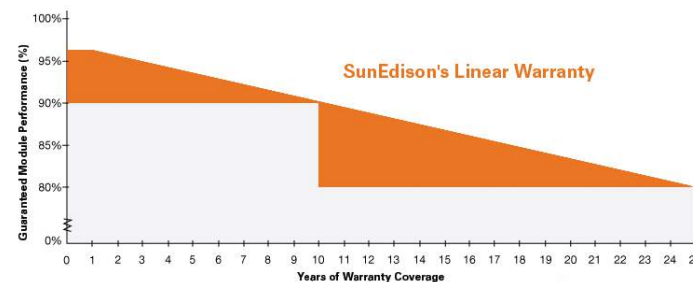


ROBUST DESIGN

- Reliability tested beyond international standards
- Proven field performance in harsh environments

SUNEDISON WARRANTY

- 10-year limited warranty for materials and workmanship
- 25-year linear power warranty at STC:
 - » Year 1: > 3.5% of rated power
 - » After year 1: < 0.7% rated power degradation annually



SILVANTIS R-SERIES: 335 W TO 360 W

PHYSICAL PARAMETERS

Module Dimensions	1,976 mm x 990 mm x 50 mm
Module Weight	22 kg
Cell-Type	PERC on CCz monocrystalline
Number of Cells	72
Frame Material	Anodized Aluminum
Tempered ARC Glass Thickness	3.2 mm
Connector Types (indicated in model #)	Bizlink S418 (-35)

TEMPERATURE COEFFICIENTS AND PARAMETERS¹

Nominal Operating Cell Temperature (NOCT)	46 ± 2 C
Temperature Coefficient of Pmax	-0.44 %/C
Temperature Coefficient of Voc	-0.30 %/C
Temperature Coefficient of Isc	+0.04 %/C
Operating Temperature	-40 C to +85 C
Maximum System Voltage	1000 V (UL & IEC)
Limiting Reverse Current	9.10 A
Maximum Series Fuse Rating	15 A
Power Tolerance (Test v. Nameplate)	-0% to +3%
Junction Box Rating	IP67
Application Class	Class A
Packaging Specifications	20 modules per pallet 440 modules per container
Wind and Snow Front Load	5,400 Pa
Wind Back Load	2,400 Pa
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	< 4%

STC ELECTRICAL CHARACTERISTICS²

Model # ³	R335BzC	R340BzC	R345BzC	R350BzC	R355BzC	R360BzC
Rated Maximum Power Pmax (W)	335	340	345	350	355	360
Open-Circuit Voltage Voc (V)	46.4	46.5	46.6	46.7	46.8	46.9
Short-Circuit Current Isc (A)	9.29	9.40	9.48	9.56	9.64	9.72
Module Efficiency (%)	17.1	17.4	17.7	17.9	18.2	18.5
Maximum Power Point Voltage Vmpp (V)	37.9	38.0	38.1	38.2	38.3	38.4
Maximum Power Point Current Impp (A)	8.85	8.95	9.06	9.16	9.27	9.38

NOCT ELECTRICAL CHARACTERISTICS⁴

Model # ³	R335BzC	R340BzC	R345BzC	R350BzC	R355BzC	R360BzC
Rated Maximum Power Pmax (W)	238.0	242.0	245.6	249.0	252.6	256.0
Open-Circuit Voltage Voc (V)	42.8	42.9	43.0	43.1	43.2	43.3
Short-Circuit Current Isc (A)	7.65	7.70	7.75	7.80	7.85	7.90
Maximum Power Point Voltage Vmpp (V)	33.6	33.8	34.0	34.2	34.4	34.6
Maximum Power Point Current Impp (A)	7.08	7.16	7.22	7.28	7.34	7.40

¹ Temperature coefficients may vary by ±10%

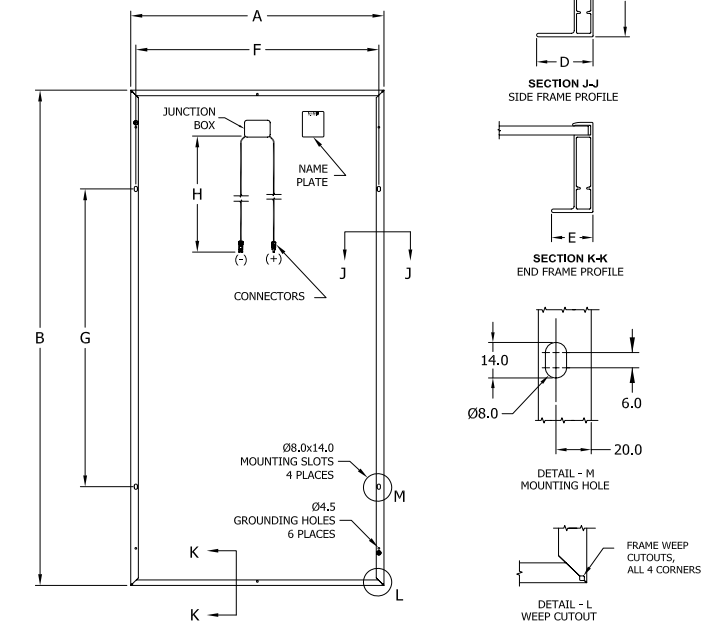
² All electrical data at standard test conditions (STC): 1000 W/m², 25 C module temperature, AM 1.5. Electrical characteristics may vary by ±5% and power by -0% to +3%.

³ z indicates manufacturing location: M = Malaysia, C = Canada, X = Mexico, P = China, T = Taiwan

⁴ Electrical characteristics measured under normal operating conditions of cells: 800 W/m², 20 C ambient temperature, AM 1.5, wind speed 1 m/s

For more information about SunEdison's Silvantis modules, please visit www.sunedison.com

R-SERIES SOLAR MODULE DIMENSIONS mm [inch]



Module Dimensions
A – 990 [39.0] B – 1,976 [77.8] C – 50 [2.0] D – 30 [1.2] E – 22 [0.9]

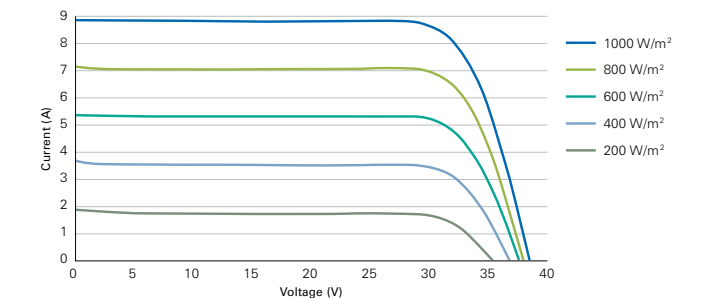
Mounting Hole Spacing
F – 950 [37.4] G – 1,188 [46.8]

Cable Length
*H – 1,000 [39.4] H – 1,300 [51.2] H – 450 [17.7] Positive lead, 650 [25.6] Negative lead

Junction Box Dimensions
101.5 x 60.0 x 25.5 [3.99 x 2.36 x 1.0]

*H – Three options available upon request; please contact your local sales representative for more information.

IV CURVES AT MULTIPLE IRRADIANCES [25 C]



IV CURVES AT MULTIPLE TEMPERATURES [1000 W/m²]

