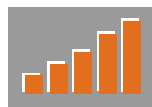


# SILVANTIS® F330 MODULE

SunEdison is a recognized authority on silicon technology and manufacturing processes developed through more than 50 years of experience. With our vertically-integrated business model, SunEdison delivers best-in-class solar modules by continuously leveraging new technology and manufacturing techniques that maximize efficiency, minimize cost, and extend product lifetime.

Our Silvantis® solar modules address our core strategy to deliver high power energy solutions at the lowest cost per watt.

SunEdison Silvantis solar module family continues our tradition of excellence by delivering the highest levels of performance worldwide, SunEdison is dedicated to providing local, responsive customer service.



### HIGH EFFICIENCY 3 BUSBARS

Built with advanced wafer technology for uniform resistivity and maximum efficiency.



### QUALITY

Manufactured in highly automated, state-of-the-art facilities certified to ISO 9001 and ISO 14001.



### RELIABLE AND ROBUST DESIGN

1000 V UL by CSA, high-quality materials, ARC glass, and high-load capability are part of each module.

### KEY FEATURES

- CCz p-type monocrystalline cells for highest conversion efficiencies
- Positive power tolerance provides increased power output
- Tempered glass with Anti-Reflective Coating (ARC) for higher energy production
- PID Resistant
- Withstands loads up to 5400 Pa as tested to IEC standards
- Non-corroding anodized aluminum frame

### QUALITY & SAFETY

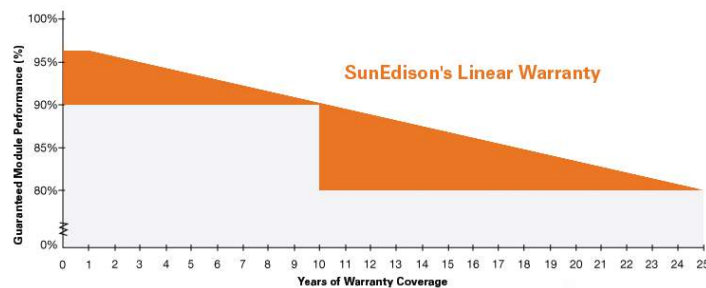
- IEC certified by TÜV SÜD:
  - » 61215 ensuring long-term operation in a variety of climates
  - » 61730 to ensure electrical safety
  - » 61701 Level 1 salt mist corrosion resistant for coastal and agricultural regions
- Automotive grade TS16949 & AQL Level II-0.4 manufacturing quality
- UL 1703 (1000 V) listed by CSA for US and Canada
- MCS certified by BABT for the UK (pending)

### WARRANTY INFORMATION

- 10-year limited warranty for materials and workmanship
- 25-year linear power warranty with coverage for power loss greater than 3.5% in the first year and 0.7% degradation per year thereafter
- Backed by SunEdison

### MODULE FAMILY

F310ByC	F315ByC
F320ByC	F325ByC
F330ByC	F335ByC



# F330 SOLAR MODULE

### PHYSICAL PARAMETERS

Module Dimensions (mm)	1,976 x 990 x 50
Module Weight (kg)	22
Cell-Type	CCz monocrystalline
Number of Cells	72
Frame Material	Anodized Aluminum
Glass (mm)	3.2 Tempered ARC glass

### TEMPERATURE COEFFICIENTS AND PARAMETERS<sup>1</sup>

Nominal Operating Cell Temperature (NOCT) (°C)	47.0 ± 2
Temperature Coefficient of Pmax (%/°C)	-0.45
Temperature Coefficient of Voc (%/°C)	-0.33
Temperature Coefficient of Isc (%/°C)	0.05
Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1000 (UL & IEC)
Limiting Reverse Current (A)	9.10
Maximum Series Fuse Rating (A)	15
Power Selection (W)	-0/+5
Junction Box Rating	IP67
Application Class	Class A
Packaging Specifications	20 modules/pallet, 440 module/container
Wind and Snow Front Load	5,400 Pa
Wind Back Load	2,400 Pa

### ELECTRICAL CHARACTERISTICS<sup>2</sup>

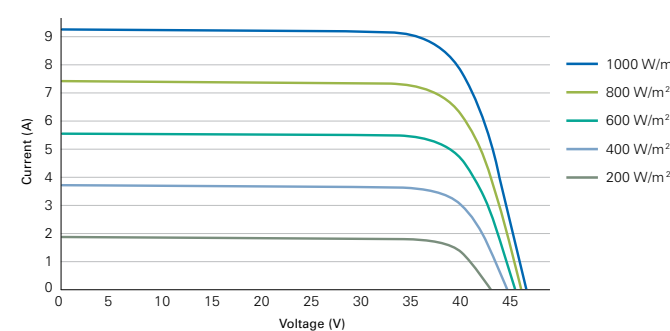
Model # <sup>3</sup>	F310ByC	F315ByC	F320ByC	F325ByC	F330ByC	F335ByC
Rated Maximum Power Pmax (W)	310	315	320	325	330	335
Open-Circuit Voltage Voc (V)	45.3	45.7	45.9	46.0	46.2	46.4
Short Circuit Current Isc (A)	9.16	9.23	9.26	9.27	9.28	9.29
Module Efficiency (%)	15.8	16.1	16.4	16.7	16.9	17.1
Maximum Power Point Voltage Vmpp (V)	36.2	36.6	37.0	37.3	37.7	37.9
Maximum Power Point Current Imp (A)	8.57	8.63	8.68	8.72	8.77	8.85

<sup>1</sup> Temperature coefficients may vary by ±10%.

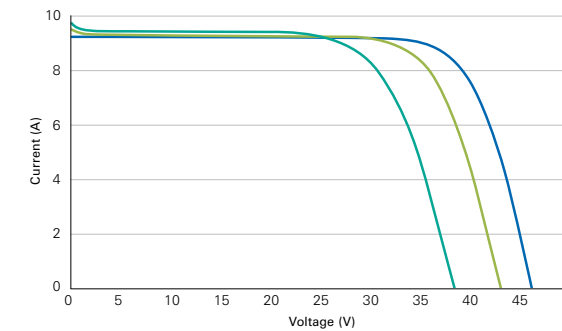
<sup>2</sup> All electrical data at standard test conditions (STC): 1000 W/m<sup>2</sup>, AM1.5, 25°C. Electrical characteristics may vary by ±5% and power by -0/+5W.

<sup>3</sup> x = connector type (4 = Bizlink S418 & 8 = Amphenol Helios H4); y indicates manufacturing location: M = Malaysia, C = Canada, D = Europe, X = Mexico, P = PRC, T = Taiwan

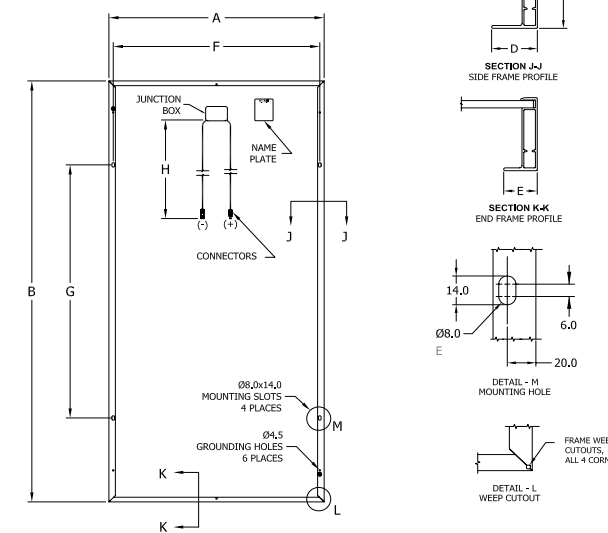
### IV CURVES AT MULTIPLE IRRADIANCES [25°C]



### IV CURVES AT MULTIPLE TEMPERATURES [1000 W/m²]



### F330 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]
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### 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.

For more information on SunEdison Silvantis modules, please visit: [www.SunEdison.com](http://www.SunEdison.com)

