

SILVANTIS® F-SERIES: 255 W TO 275 W SOLAR MODULES

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 solar module factories are ISO 9001 and ISO 14001 certified, and our products undergo rigorous inspection to ensure the highest possible quality.

The SunEdison Silvantis solar module family continues our tradition of excellence by delivering the highest levels of performance worldwide.

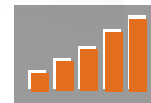
SunEdison is dedicated to providing local, responsive customer service.



AESTHETIC DESIGN
Sleek black-frame designed specifically with residential customers in mind.



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



HIGH EFFICIENCY
SunEdison modules are designed to the highest industry standards of power output.

KEY FEATURES

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

QUALITY & SAFETY

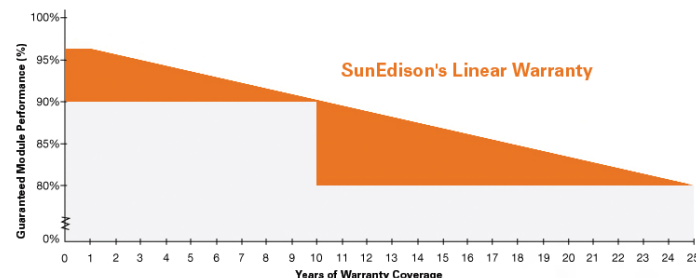
- IEC certified by TÜV SÜD:
 - » 61215 ensuring long-term operation in a variety of climates
 - » 61730 to ensure electrical safety
 - » 61701 Level 1 salt mist corrosion resistant for coastal regions
 - » 62716 ammonia testing for agricultural environments (pending)
- UL 1703 listed by CSA for US and Canada
- MCS certified by BABT for the UK
- Automotive grade TS16949 & AQL Level II-0.4 manufacturing quality

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

- Black frame standard on all models
- White back sheet: SE-F2xxCyC
- Black back sheet: SE-F2xxKyC



F255 W TO F275 W SOLAR MODULES

PHYSICAL PARAMETERS

| | |
|--|---------------------------------|
| Module Dimensions | 1,658 mm x 990 mm x 50 mm |
| Module Weight | 19.3 kg |
| Cell-Type | CCz monocrystalline |
| Number of Cells | 60 |
| Frame Material | Black Anodized Aluminum |
| Tempered ARC Coated Glass Thickness | 3.2 mm |
| Connector Types (indicated in model #) | Amphenol Helios H4 (-38 or -28) |

TEMPERATURE COEFFICIENTS AND PARAMETERS¹

| | |
|--|--|
| Nominal Operating Cell Temperature (NOCT) | 46 ± 2 C (CyC), 48 ± 2 C (KyC) |
| Temperature Coefficient of Pmax | -0.45 %/C |
| Temperature Coefficient of Voc | -0.34 %/C |
| Temperature Coefficient of Isc | +0.06 %/C |
| Operating Temperature | -40 C to +85 C |
| Maximum System Voltage | 1000 V (UL) & 1000 V (IEC) |
| Limiting Reverse Current | 9.20 A |
| Maximum Series Fuse Rating | 15 A |
| Junction Box Rating | IP67 |
| IEC 61730 Application | Class A |
| Packaging Specifications | 20 modules/pallet 520 modules/40' 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 | [%] rel. < 4% |

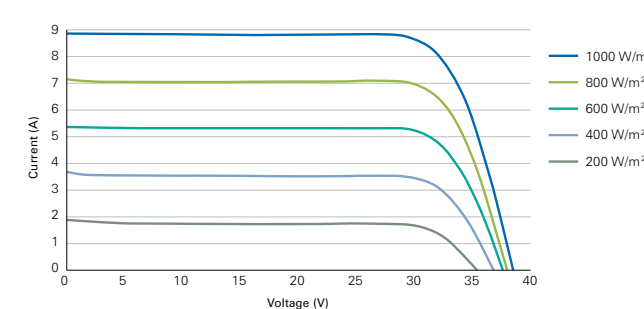
STC ELECTRICAL CHARACTERISTICS²

| Model # ³ | F255CyC | F260CyC | F265CyC | F270CyC | F275CyC | F255KyC | F260KyC | F265KyC | F270KyC | F275KyC |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Frame/Back Sheet Color | Black/White | Black/White | Black/White | Black/White | Black/White | Black/Black | Black/Black | Black/Black | Black/Black | Black/Black |
| Rated Maximum Power Pmax (W) | 255 -0 to +5 W | 260 -0 to +5 W | 265 -0 to +5 W | 270 -0 to +5 W | 275 -0 to +5 W | 255 -0 to +5 W | 260 -0 to +5 W | 265 -0 to +5 W | 270 -0 to +5 W | 275 -0 to +5 W |
| Open-Circuit Voltage Voc (V) | 37.8 | 38.4 | 38.5 | 38.5 | 38.6 | 37.8 | 38.4 | 38.5 | 38.5 | 38.6 |
| Short Circuit Current Isc (A) | 8.80 | 8.90 | 9.00 | 9.10 | 9.20 | 8.80 | 8.90 | 9.00 | 9.10 | 9.20 |
| Module Efficiency (%) | 15.5 | 15.8 | 16.1 | 16.4 | 16.8 | 15.5 | 15.8 | 16.1 | 16.4 | 16.8 |
| Voltage Vmpp (V) | 31.3 | 31.4 | 31.4 | 31.5 | 31.6 | 31.3 | 31.4 | 31.5 | 31.5 | 31.6 |
| Current Imp (A) | 8.15 | 8.30 | 8.43 | 8.58 | 8.72 | 8.15 | 8.30 | 8.42 | 8.58 | 8.72 |

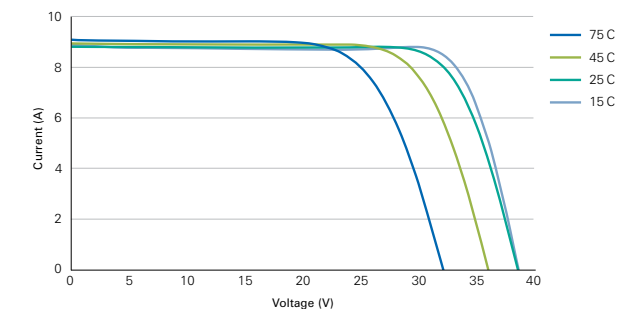
NOCT ELECTRICAL CHARACTERISTICS⁴

| Model # ³ | F255CyC | F260CyC | F265CyC | F270CyC | F275CyC | F255KyC | F260KyC | F265KyC | F270KyC | F275KyC |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Rated Maximum Power Pmax (W) | 186.3 | 190.0 | 193.6 | 197.3 | 200.9 | 182.4 | 186.0 | 189.6 | 193.2 | 196.7 |
| Open-Circuit Voltage Voc (V) | 34.8 | 35.1 | 35.3 | 35.5 | 35.6 | 34.5 | 34.8 | 35.1 | 35.3 | 35.5 |
| Short Circuit Current Isc (A) | 7.30 | 7.35 | 7.39 | 7.42 | 7.45 | 7.15 | 7.20 | 7.25 | 7.28 | 7.30 |
| Voltage Vmpp (V) | 27.4 | 27.7 | 28.1 | 28.4 | 28.8 | 27.4 | 27.9 | 28.0 | 28.2 | 28.6 |
| Current Imp (A) | 6.80 | 6.85 | 6.90 | 6.94 | 6.97 | 6.67 | 6.70 | 6.76 | 6.84 | 6.90 |

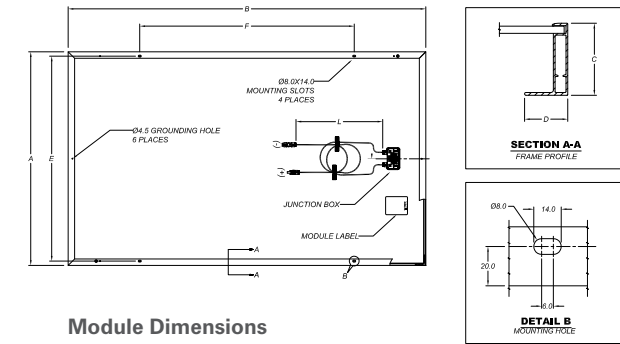
IV CURVES AT MULTIPLE IRRADIANCES [25 C]



IV CURVES AT MULTIPLE TEMPERATURES [1000 W/m²]



SOLAR MODULE DIMENSIONS mm [inch]



Module Dimensions

A – 990 [39.0] B – 1,658 [65.3]
C – 50 [2.0] D – 30 [1.18]

Mounting Hole Spacing

E – 950 [37.4] F – 994 [39.1]

Cable Length

L – 1,000 [39.4]

Junction Box Dimensions

101.5 x 60.0 x 25.5 [3.99 x 2.36 x 1.0]

¹Temperature coefficients may vary by ±10%

²All electrical data at standard test conditions (STC): 1000 W/m², AM1.5, 25 C

Electrical characteristics may vary by ±5% and power by -0/+5 W

³x = 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

⁴NOCT electrical characteristics measured under normal operating conditions of cells: 800 W/m², 20 C, AM1.5, wind 1 m/s

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

