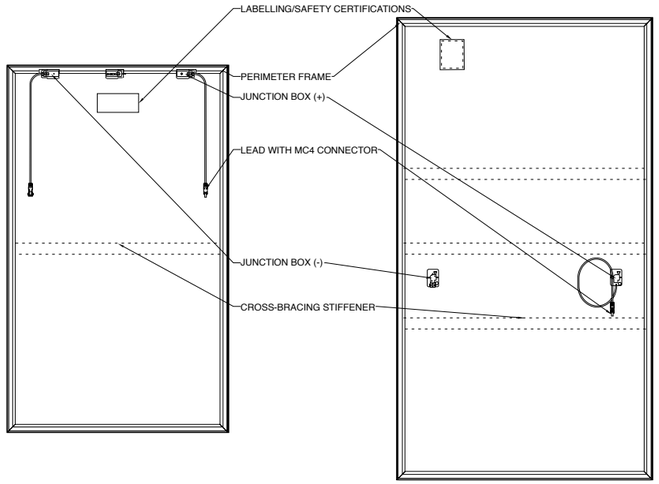
The Solstex® – Solar Facade System by Elemex® is made from high-efficiency photovoltaic (PV) panels that are engineered to be weather-resistant and lightweight. Each large-format, code-compliant panel generates up to 17.6 W/sq.ft., reducing your building's dependence on fossil fuels, earning LEED credits, and generating savings that can cover installation costs within 10-12 years. They are designed to seamlessly integrate with other Elemex products including: Ceramitex®, Stonitex® and Alumitex® facade systems.

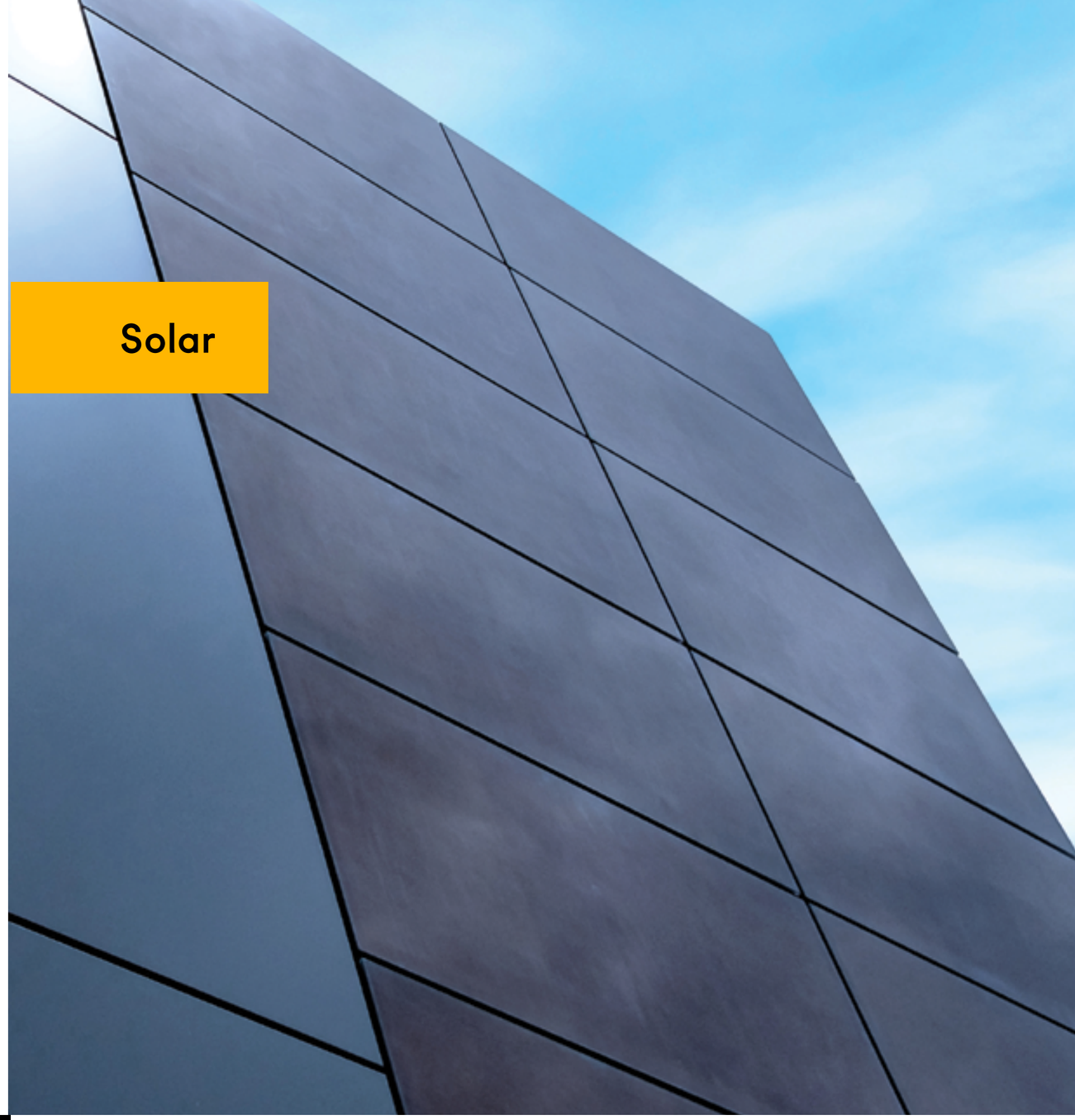


Model	Nominal Power [W]	Voltage at Pmax [V]	Current at Pmax [I]	Efficiency [%]	Open Circuit Voltage [V]	Short Circuit Current [I]
F-Series	440-470	182.6 - 188.8	2.36 - 2.44	17.1 - 18.3	219.2 - 222.9	2.54 - 2.59
K-Series	263-289	34.5	7.5-8.3	15.6-17.1	40.6	8.1-8.9

CO_2 Displacement*:

- F-Series – 0.300 tonnes or 300 kg annually

* These calculations are based on panels installed in London, ON on a South-facing wall. Precise calculations can be provided and will vary depending on location.



elemex®
Architectural Facade Systems

elemex.com 530 Admiral Dr. London, Ontario N5V 0B2 T 1 844 435 3639 F 519 455 0253

ELXD-072-01-22

SOLSTEX® Solar Facade System

Solar

Harness the beauty and power of solar.

Features & Benefits

LEED Compliance

Use of the Solstex® Facade System lessens a building's dependence on energy generated by fossil fuels and can earn up to five LEED credits.

Reliable Return/High Return

The Solstex Facade System generates energy savings that will have covered the cost of installation after 10-12 years.

Design Flexibility

Leveraging Elemex's proprietary Unity® technology, Solstex can be seamlessly integrated with other Elemex facade systems to provide flush planes and unparalleled design flexibility.

Eco-Efficient

With the smallest carbon footprint and lowest water usage during manufacturing, Solstex panels are the photovoltaic (PV) industry's most eco-efficient.

High-Efficiency

Solstex panels deliver significantly more energy than other PV panels, at up to 17.6 W/sq. ft.

Weather Resistant

Solstex panels have been independently tested and certified to provide reliable performance that exceeds IEC standards in high temperature, high humidity, and extreme weather, including rain and snow.

Large Format

Solstex large format panels maximize facade coverage and energy production.

Lightweight

At a standard weight of less than 3.5–5.5 lbs lbs per square foot, the Solstex Facade system is designed to make the installation as easy as possible.

UNITY®

Unity® is our proprietary concealed attachment technology that supports simple and elaborate designs from flat panels to complex shapes. It seamlessly integrates with all of Elemex's facade surfaces using one proven system that offers multi-panel surface integration and the ability to design and install with absolute confidence. Unity brings it all together for a new North American standard.

Product Specifications

Composition + Materials

Solstex® Solar Panels consist of thin-film CdTe technology or crystalline silicone technology encapsulated between 2 sheets of heat-strengthened glass, adhered to our proprietary Unity® attachment technology.

Standard Panel Size (actual face size of panel) **:**
F-Series - 48.5" x 79" (1232mm x 2009mm)
K-Series - 39.56" x 66.14 (1005mm x 1680mm)

Watts/Panel: **F-Series** - 440-470 W
K-Series - 263-289 W

Standard Thickness:
F-Series - ¼" (6mm)
K-Series - 5/16" (8mm)

Weight: Approximately 3.5-5.5 lbs/SF (depending on chosen panel)

Finish: **F-Series** - ⅛" (2.8 mm) heat-strengthened glass that presents as a gloss black.
K-Series - Made with 5/32" (4mm) Kromatix™ colored front glass with an opaque back glass.

Warranty: 1-year manufacturer (10-year limited surface warranty) 30-year limited power warranty.

Consult your Elemex® Agent for availability and pricing.

Rear Ventilated Rainscreen

Rear Ventilated Rainscreen (RVR)

Our Rear Ventilated Rainscreen (RVR) system breathes freely and allows panels to repel water and debris.

Pressure-Equalized Rainscreen

Pressure-equalization reduces the pressure difference across the cladding through the use of compartmentalization and back venting. Ingress of incidental water is reduced and residual moisture is returned to the exterior at the drainage plane.