

SOLON SOLquick™

Lightweight Commercial Photovoltaic System.

*Just
2.7 psf*

- › Expand Your Business
More solar on more roofs
- › Win More Deals
Go where the competition can't go
- › Satisfy Your Customers
Put their mind at ease

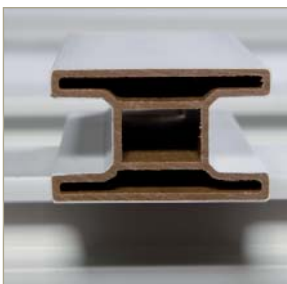


The Best Lightweight System for Commercial Roofs.

Now you can bid with confidence on roofs you used to walk away from.

SOLON's SOLquick™ system is designed to make you a winner on your next lightweight roof project. SOLquick's innovative unitary design weighs less than 80 lbs and is just 2.7 psf. SOLON's patent-pending, wind-tunnel tested design distributes load across the roof membrane to reduce point loads to a bare minimum. In addition, our proprietary engineering analysis optimizes your project for the lowest possible ballast free of charge.

ENGINEERED WITH
FIBREX®



Fibrex® Material from Andersen Corporation:

Ideally suited for commercial, industrial and utility-scale systems, SOLON SOLquick's lightweight frame is constructed with Fibrex material from Andersen Corporation. Used in outdoor construction since 1993, the patented Fibrex composite material is made out of reclaimed wood fiber from Andersen manufacturing operations and a special thermoplastic polymer, some of which is also partially reclaimed. Fibrex material is non-conductive as well as moisture and heat resistant. The outdoor durability and reliability of Fibrex material has been tested for more than 18 years by the worldwide leader of high quality windows and doors, Andersen®.

"SOLquick" is a trademark of SOLON Corporation. "Andersen" and "Fibrex" are registered trademarks of Andersen Corporation.



Lightweight Features.

- › 2.7 psf—innovative materials and frameless modules make SOLquick lighter than traditional systems
- › Wind-tunnel tested & aerodynamic design reduces both lift and downward wind pressures, minimizing ballast and/or penetrations
- › Minimal point and edge loading—easier on rooftops by distributing weight more evenly on the membrane
- › System optimization ease—our engineering team will support your project to achieve the lowest possible ballast and/or penetrations scenario

Simple and Fast Installation.

- › Modular unit—ships as pre-assembled laminate and rack
- › No tools or assembly required
- › No Grounding
- › Quick-click U-bolt interconnects
- › No staging required
- › Flexible installation solutions for various roof surfaces—self-ballasted, ballasted and roof penetrating

Higher Performance.

- › Optimal energy output due to 10° inclination with minimal shading
- › Maximum output per square foot of roof area used

Roof Protection.

- › Non-penetrating installation design¹⁾
- › Lightweight racking made of Fibrex® material by Andersen Corporation
- › Can be affixed to roof with standard penetration methods
- › Low edge loading

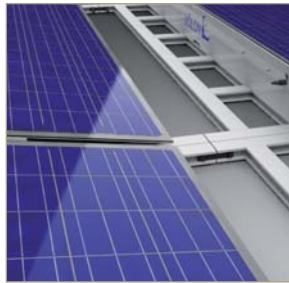
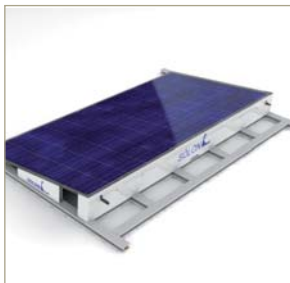
SOLON Advantages:

- › 10-year product guarantee¹⁾
- › 25-year performance guarantee¹⁾
- › Positive sorting of power classes (0 to + 4.99 Wp)

¹⁾According to SOLON Product and Performance Guarantee.

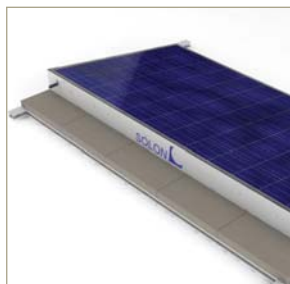


Simple Tool-Free Installation.



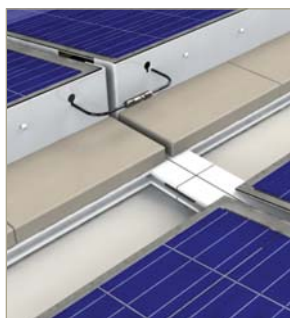
1. Place.

- › Mark the corner of the first SOLON SOLquick row
- › Remove product from wrapped pallet
- › Place SOLON SOLquick unit on roof in the designated location



2. Secure.

- › Link the units together with the quick-click U-bolt
- › Three fast mounting methods for customer needs
- › Self-ballasting, ballasting or roof penetrating—depending on the roof structure



3. Connect.

- › Cable channels already integrated (UV protection)
- › Electrically interconnect modules
- › No grounding required

SOLON SOLquick™ Photovoltaic System

SOLON Black XT (monocrystalline)



Electrical data – Typical (STC)

STC (Standard Test Conditions): 1,000 W/m², (25 ± 2)°C, AM 1,5 in accordance to EN 60904-3

Capacity Rating	P _{max}	300 Wp	295 Wp	290 Wp
Module efficiency		15.15 %	14.9 %	14.65 %
Rated voltage *)	V _{mpp}	36.0 V	35.8 V	35.6 V
Rated current *)	I _{mpp}	8.36 A	8.26 A	8.16 A
Open circuit current	V _{oc}	44.77 V	44.55 V	44.23 V
Short circuit current	I _{sc}	8.74 A	8.55 A	8.23 A
Series fuse rating	I _R	44.77 V	44.55 V	44.23 V
Maximum system voltage		600 V	950 V	600 V
Power tolerance		0/+ 4.99W		

Sun simulation measure tolerance(class AAA Flasher): +/- 3%

Reduction of module efficiency from 1,000 W/m² to 200 W/m²: < 5 %

Electrical Data – Typical (NOCT)

NOCT (Nominal Operating Cell Temperature): 800 W/m², NOCT, AM 1,5

Power rating	P _{max}	215 Wp	212 Wp	208 Wp
Rated voltage *)	V _{mpp}	32.27 V	32.09 V	31.91 V
Rated current *)	I _{mpp}	6.67 A	6.59 A	6.52 A
Open circuit voltage	V _{oc}	40.46 V	40.22 V	39.98 V
Short circuit current	I _{sc}	7.06 A	6.99 A	6.94 A

Thermal data (Tc)

Tc of open circuit voltage	-0.33 %/°C
Tc of short circuit current	-0.04 %/°C
Tc of power	-0.43 %/°C
NOCT (according to IEC 61215)	48°C ± 2°C

Sun simulation measure tolerance(class AAA Flasher): +/- 3%

Measuring tolerance for all final data: ± 10 % (except P_{max} (STC) and NOCT)

SOLON Blue XT, XT-H (polycrystalline)



Electrical Specifications – Typical (STC)

STC (Standard Test Conditions): 1,000 W/m², (25 ± 2)°C, AM 1,5 in accordance to EN 60904-3

		XT	XT	XT-H
Capacity rating	P _{max}	285 Wp	280 Wp	280 Wp
Module efficiency		14.39 %	14.14 %	14.3 %
Rated voltage *)	V _{mpp}	36.25 V	35.95 V	36.10 V
Rated current *)	I _{mpp}	7.86 A	7.78 A	7.76 A
Open circuit current	V _{oc}	44.50 V	44.08 V	44.3 V
Short circuit current	I _{sc}	8.27 A	8.20 A	8.40 A
Series fuse rating	I _R	15 A	15 A	15 A
Man system voltage		600 V	600 V	600 V
Power tolerance		0/+ 4.99W		

Sun simulation measure tolerance(class AAA Flasher): +/- 3%

Reduction of module efficiency from 1,000 W/m² to 200 W/m²: < 5 %

Electrical Specifications – Typical (NOCT)

NOCT (Nominal Operating Cell Temperature): 800 W/m², NOCT, AM 1,5

		XT	XT	XT-H
Power rating	P _{max}	207 Wp	204 Wp	204 Wp
Rated voltage *)	V _{mpp}	32.99 V	32.72 V	32.72 V
Rated current *)	I _{mpp}	6.29 A	6.23 A	6.23 A
Open circuit voltage	V _{oc}	40.45 V	40.25 V	40.25 V
Short circuit current	I _{sc}	6.71 A	6.66 A	6.66 A

Thermal Data (Tc)

Tc of open circuit voltage	-0.35 %/°C
Tc of short circuit current	-0.07 %/°C
Tc of power	-0.45 %/°C
NOCT (according to IEC 61215)	46°C ± 2°C

Measuring tolerance for all final data: ± 10 % (except P_{max} (STC) and NOCT)

SOLON SOLquick™ Photovoltaic System

Mechanical specification

Dimensions (H x W x D)	78.9 x 53.8 x 8.0 in.
Weight	Lightweight system- 80 lbs. just 2.8 psf
Inclination	10° nominal
Junction box	1 junction box with 3 bypass diodes
Cable	PV wire, length 81.5in. (2,070mm), 12 AWG (4mm ²), prefabricated with MC4 connector
Front glass	Transparent tempered safety glass, 0.16 in. (4mm)
Solar cells	72 cells, mono & polycrystalline, 6.14 x 6.14 in. (156 x 156 mm)
Fire class	C
Frame	Frameless

Permissible operating conditions

Temperature range	-40°F to +185°F (-40°C to +85°C)
Resistance against hail	Maximum diameter of 1 in. (25mm) with impact speed of 51.5 mph (23 m/s)
Wind load	Wind load 30 psf; Wind tunnel tested
Snow load	SOLquick is suitable in areas where compression loads including snow are up to 50 psf

Guarantees and certifications

Product warranty	10 years ¹⁾
Performance guarantee	Guaranteed output of 95% for 5 years, 90% for 10 years, 87% for 15 years, 83% for 20 years and 80% for 25 years ¹⁾
Approvals and certificates	ETL listed and UL 1703 certified and CEC listed

