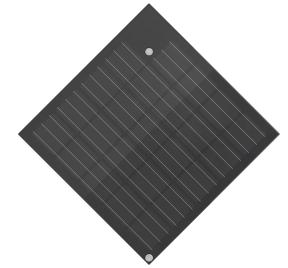
# SunStyle

## **Solar Roof Shingle Technical Data**



## **General Characterstics**

**Shingle Dimensions** Construction Solar Cell Type **Glass Thickness Glass Properties** Weight **Temperature Range Junction Box Bypass Diode Connection Cable Connection Cable Length** Connector **Roof Pitch** 

34 1/4" x 34 1/4", 870 x 870 mm Glass | EVA | Cells | EVA | Glass PERC Monocrystalline 3.2 mm (front) + 3.2 mm (back) Tempered Solar Glass 4.4 lbs/ft<sup>2</sup>, 21.5 kg/m<sup>2</sup> -40° F to +185°F TE Connectivity or equivalent One Diode per shingle Solar Cable 4mm<sup>2</sup> 800mm TE Connectivity (PV4) or equivalent 2:12 or greater

#### **Electrical Properties at STC** (1000 W/m<sup>2</sup>, 25°C And Am 1.5)

Type of shingle	Black basic shingle
Nominal output	110 Wp per shingle
Efficiency	17%
Voltage at Mpp Vmpp	13.1 V
Current at Mpp Impp	8.4 A
Open circuit voltage Voc	16.1 V
Short circuit current lsc	9.2 A
Maximum system voltage	1000 V DC
Reverse current overload	18 A
Tolerance nominal output	±3%

## **Temperature Coefficients**

Temperature coefficient voltage (VOC)	-0.33%/K
Temperature coefficient nominal output (PMPP)	-0.44%/K
Temperature coefficient short circuit current (ISC)	+0.0003%/K

### **Quality and Warranty**

Product guara	ntee	30 years
Performance	10 years at 90%	nominal output
guarantee	25 years at 80%	nominal output

\*Tests have passed and preliminary reports are available, however listing is pending final UL 7103 listing completion expected in February 2022.

## **Certifications**

Photovoltaic Module Safety	UL/IEC 61730-1, 61730-2
PV Module Performance	UL/IEC 61215
Fire	UL 790 Class A*
Impact	FM4437 Class 4*
Wind Resistance	ASTM D3161 Class F*
Wind-Driven Rain	TAS 100 (A)*
Mechanical Loading	UL7103 Section 31*
Grounding	Pending UL 2703 Evaluation