



SOLARISLATE®
ENERGY BUILT-IN

www.solarislate.com

PS DARK 400

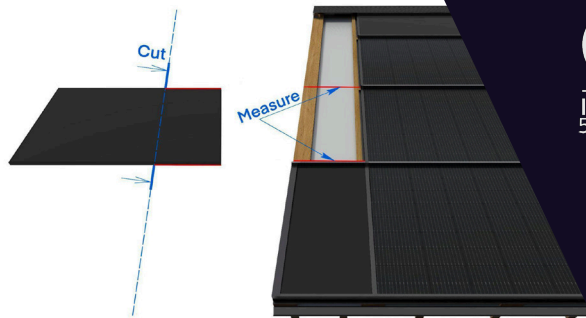
Building Integrated Photovoltaic Solar Roof

BEAUTIFULLY EFFICIENT

All-weather replacement for traditional roofing featuring integrated solar power generation and a premium aesthetic

EASY TO INSTALL & MAINTAIN

Standard size PV modules and aluminum composite panels provide a durable, visually seamless roof system



Solarislate is now UL7103 certified with Intertek to provide US customers with clean energy at an industry-leading value.

UL7103 is the national safety standard for Building-Integrated Photovoltaics (BIPV). BIPV is a solar power technology that incorporates solar-generating materials into building components, such as roofs.

The safety evaluation includes electrical, temperature, mechanical loading, wind resistance, impact and fire tests. The product's output wiring system is also investigated for conformance with the provisions of the National Electrical Code (NEC).



+1 (206) 355-1331
info@solarislate.com



DATASHEET

PS Dark 400™ BIPV Solar Roof

CERTIFICATIONS & TESTS

UL Listed	
ETL Listed	
UL 7103	
UL/IEC 61215 / 61730	
UL 790 Fire	Class A
UL 1897 Wind	45 PSF*
UL 2218 Impact	Class 4
UL 7103 Mechanical Load	30 PSF**
IEC TS 62804	
IEC 60068, 62716, 61701	

*Design Load 45 PSF with 2 Safety Factor

**Design Load 30 PSF with 1.5 Safety Factor

ELECTRICAL CHARACTERISTICS

Maximum Power (Pmax)	400 W ± 5%
Open-Circuit Voltage (Voc)	37.15 V ± 5%
Short-Circuit Currents (Isc)	13.55 A ± 5%
Voltage at Max. Power (Vmpp)	31 V
Current at Max. Power (Impp)	12.92 A
Module Efficiency	20.5%
Bifaciality Ratio (%)	65 ± 5%

Values at Standard Test Conditions STC (Air Mass AM 1.5, Irradiance 1000 W/m², Cell Temperature 25° C / 77° F)

OPERATING CONDITIONS

Min. Operating Temperature	-40° C / F
Max Operating Temperature	+90° C / +194° F
Max. Installation Altitude	2000 m / 6561 ft
Max. System Voltage	1500 V
Max. Series Fuse	25 A

MECHANICAL CHARACTERISTICS

Installed Dimensions	1730 x 1128 x 72 mm 68.1102" x 44.4094" x 2.8346"
Installation Coverage	1.95 m ² / 21.0051 sq ft
System Weight	23.5 kg / 51.81 lbs
Min. Roof Pitch	9.46 deg / 2:12
Tested Wind Load	4309.2 Pa / 90 psf
Design Wind Load	2154.6 Pa / 45 psf
Wind Speed Rating	~213 km/h / ~132 mph
Tested Snow Load	2154.6 Pa / 45 psf
Design Snow Load	1436.4 Pa / 30 psf

LIMITED WARRANTY

Product Warranty	10 Years
Extended Warranty (optional)	25 Years
Power Performance Warranty	25 Years / 86%

