



SPML150BSF

Maple Leaf 150W Balcony Semi-flexible Solar Panel

150W Balcony Semi-flexible

Transform your energy efficiency with our cutting-edge 150W Balcony Semi-Flexible Solar Panel. Engineered with Ultra Lightweight Bifacial Monocrystalline Solar Cells, it also delivers an impressive Watt-hours daily. Embrace the future with its advanced flexible design, maximizing solar light capture for unparalleled output efficiency. The remarkable flexibility adapts to curved surfaces like balconies, rooftops, RVs, boats, and yachts.

Featuring an IP67-rated waterproof junction box and robust construction, our solar panel is built to withstand heavy snow loads and strong winds.

Warranty



25 Years
Power Output
Warranty



>90%-15 yrs
>80%-25 yrs
Power Performance
Warranty

Product Certification



Key Features

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Ultra Lightweight and Bendable

Semi-Flexible Panel can bend and adjust in balconies and curved surfaces: front of RVs, Boats, and Campers.
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Bifacial with Excellent Light Transmission

It consist of distinctive bifacial design with Monocrystalline technology, incorporating robust components.
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High Efficiency Output with Protection

Increase overall energy efficiency output and is scratch-proof, self-cleaning features.
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Built for Endurance and Longevity

Engineered to endure heavy snow loads and high winds, it ensures longevity and dependability in tough settings.
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Quick and Inexpensive Mounting

Compatibility with variety of mounting, including Ground, Z brackets, Corner Brackets, Pole, and Tilt Mounting.
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Effortless Installation with 10 Adjustment Belts

Set includes 10 Adjusting Belts for a simple installation method that assures secure and stable alignment.

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Mechanical Parameters

Solar Cells	Monocrystalline/Bi-facial
Date	Aug 2023
Dimensions	800*1088*16mm
Bi-facial Gain	Up to 15%(*based on ideal test conditions)
Connectors	MC4 compatible
Wind load test	2400Pa/0.35 PSI
Snow Load Test	5400Pa/0.75 PSI
Standard Test Condition	1000W/m2, AM 1.5, 25°C
Manufacture Warranty	25 years
Power Performance Warranty	>90% after 15 years >80% after 25 years
Temperature Range	-20°C to +65°C
Cell	182*60.6--16*2*2
Module Structure	Frame/CPC / EVA /Backsheet

Electrical Characteristics

Imp	8.09A
Voc	21.76V
Isc	8.58A
Maximum Power(Pmax)	150W
Maximum Power Voltage(Vmp)	18.58V
Maximum System Volatge	100V
Output Tolerance	0~+3%

Mc4 Connectors

Rated Current	30 A
Maximum Voltage	1000 VDC
Certified	UL & CSA
Temperature Range	-40°C -90°C(-40°F - 194°F)
IP Rating	IP 67

Adjustable Belts

Number of Belts	10 Pcs
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Adjustable Belts



Mc4 Connectors

*** The information and measurements in this datasheet have been assessed under Standard Test Conditions, so there may be slight differences from real-world findings. Maple Leaf and its associated entities retain the right to change the information given within this datasheet without prior notice. Our goal is to provide clients with the most recent product information. You can find these datasheets in the downloading section of our product description.