



SPMLBI100

Maple Leaf 100W Mono Rigid Solar Bi-facial Panel

100W Mono Rigid

Introducing the groundbreaking 100W Monorigid Bifacial Solar Panel, a game-changer in renewable energy. Capturing sunlight from both sides, it boasts a remarkable 30% increase in energy yield compared to conventional panels. Advanced technologies, half-cut cell, and bypass diodes, ensure optimal performance, thriving even in partial shade and snowy conditions.

Perfect for off-grid living, the panel is pre-drilled for quick installation on RVs, rooftops, and various applications. Engineered for longevity, this solar panel features an IP67-rated junction box, demonstrating resilience against challenging weather conditions.

Warranty

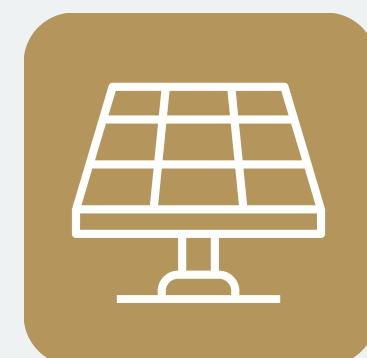
25 Years
Power Output
Warranty

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

Product Certification



Key Features



Bifacial with Excellent Light Transmission

Achieving an outstanding conversion rate of 30% more by capturing sunlight from both side of panels which helps in superior light transmission and durability.



Steadfast Power Output

Generating an excellent Watt-hours (Wh) per day, it offers a dependable and resilient energy solution.



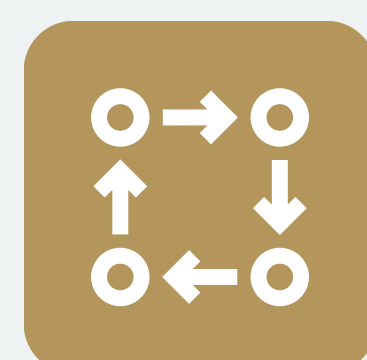
Multi-Protection Features

With bypass diodes, it guards against overheating and keeps running without interruption even in shading.



Built for Endurance and Longevity

Long-term outdoor use with corrosion-resistant metal frame, withstand strong winds(2400Pa) & snow(5400Pa).



Quick and inexpensive mounting

Compatibility with variety of mounting, including Ground, Z brackets, Corner Brackets, Pole, and Tilt Mounting.



Effortless Installation

Back has pre-drilled holes to make installation easier. Perfect for off-grid uses: Buildings, Trailers, Vehicles, Homes, Rooftops, Boats, and RVs.

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Mechanical Parameters

Solar Cells	Monocrystalline
Date	Aug 2023
Dimensions	1160*450*30mm
Weight	5.5/6.3kg
Connectors	MC4 compatible
Wind load test	2400Pa/0.35 PSI
Snow Load Test	5400Pa/0.75 PSI
Standard Test Condition	1000W/m ² , AM 1.5, 25°C
Cell Efficiency	22%
Cell	210*33.2--34*2
Temperature Range	-40°C to +80°C
Manufacture Warranty	25 years
Power Performance Warranty	>90% after 15 years & >80% after 25 years
Module Structure	Aluminum Frame / Glass / EVA / Backsheet

Electrical Characteristics

Imp	5.19A
Voc	22.92V
Isc	5.50A
Output Tolerance	0 - +3%
Pm Vmp	19.28V
Maximum System Voltage	500V(IEC)
Max Series Fuse Rating	20A

Junction Box

Junction Box	≥IP67 rated
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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
Cable (MC4)	700mm /2.5mm ²

*** 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.