

# SPMLBI180

## Maple Leaf 180W Mono Rigid Solar Bi-facial Panel

### 180W Mono Rigid

Introducing the groundbreaking 180W Monorigid Bifacial Solar Panel, a revolutionary leap in the field of renewable energy. This innovative panel, capturing sunlight from both sides, achieves an impressive 30% increase in energy yield compared to conventional counterparts. With cutting-edge technologies such as half-cut cells, and bypass diodes, this solar panel excels in performance, thriving even in partial shade and snowy conditions.

Customized for off-grid living, the panel comes pre-drilled for quick installation on RVs, rooftops, and various applications. Engineered for durability, it boasts an IP67-rated junction box.

### Warranty



**Power Output  
Warranty**

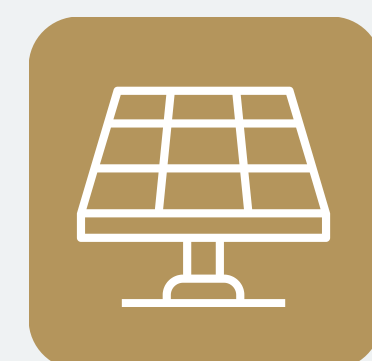


**Power Performance  
Warranty**

### 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.



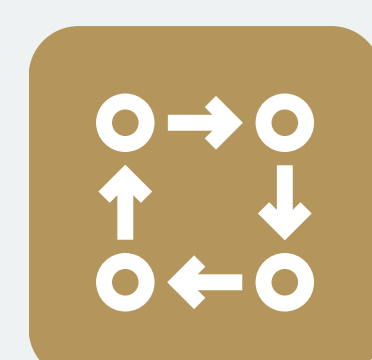
#### Multi-Protection Features

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	1230*705*30mm
Weight	31.5kg
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
Cell Efficiency	22%
Cell	166*31.4--38*4
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	8.36A
Voc	25.62V
Isc	8.86A
Output Tolerance	0 - +3%
Pm Vmp	21.55V
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 <sup>2</sup>

\*\*\* 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.