

ELIOS | Voltaic 210F-B

210W Semi-Flexible Mono-Crystalline Balcony Solar Panel with Eyelet
Data Sheet



The Voltaic210F-B is a lightweight and bendable photovoltaic module designed for applications where rigid panels are not practical. Its ultra-thin construction enables installation on curved or irregular surfaces, making it ideal for mobile, marine, and off-grid energy solutions. The panel features corrosion-resistant metal eyelets evenly spaced along the edges, allowing secure mechanical attachment without compromising flexibility or structural integrity. This design ensures reliable performance and durability while maintaining ease of installation in a wide range of environments.

Features & Benefits



Ideal for balcony rails with 12 metal-reinforced mounting holes.



Bendable up to 213°, perfect for curved surfaces.



Half-cut cell technology enhances resistance to hot spots and accidental shading.



Delivers 210W of power, a 5% increase over standard 200W panels.



Designed to endure 2400 Pa wind load and 5400 Pa snow load, ensuring durability in extreme weather conditions.

Certifications

ETL | FCC | CE | RoHS | TUV | IEC 61215: In 2016 | IEC 61730: 2016 | PID test.

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ELECTRICAL SPECIFICATIONS

| | |
|---|----------------|
| Maximum Power at STC (Pmax) | 210W |
| Optimum Operating Voltage (Vmp) | 41.4V |
| Optimum Operating Current (Imp) | 5.07A |
| Open - Circuit Voltage (Voc) | 49.2V |
| Short - Circuit Current (Isc) | 5.36A |
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage | 1000V DC |
| Maximum Series Fuse Rating | 15A |
| Power Tolerance | ±3% |
| STC: Irradiance 1000 W/m ² , module temperature 25 °C, AM=1.5; | |

MECHANICAL SPECIFICATIONS

| | |
|------------------------------|---|
| Solar Cell Type | Mono solar cell, 166*83mm, 6*12 layout |
| Eyelets | 12 |
| Dimensions (LxWxD) | 42.6 x 43.5 x 0.1 in (1083 x 1104 x 3 mm) |
| Color | Black |
| Front Material | ETFE |
| Backsheet | TPT |
| Junction Box | IP68 |
| Output Cables | 90cm 4mm ² cable |
| Connectors | Compatible MC4 |
| Weight | 4.2kg |
| Thickness | 3mm |
| Max bending degree suggested | 240 degrees |

PACKAGING & SHIPPING INFORMATION

| | |
|--|---|
| Retail Box Dimensions (LxWxD) & Weight | 45.9 x 45 x 2.2 in (1165 x 1144 x 55 mm) 7.2 kg (15.9 lb) |
| 40'HQ | 27*2 Pieces per pallet; 1080 Pieces per container |

Applications

- Balconies
- Roof Top
- Yacht
- Boat
- Trailer
- RV
- Curvy Surfaces

Warranty

- 30 year performance warranty to 80%
- 10 year performance warranty to 90%
- 12 year warranty against production and material defect

Dimensions

