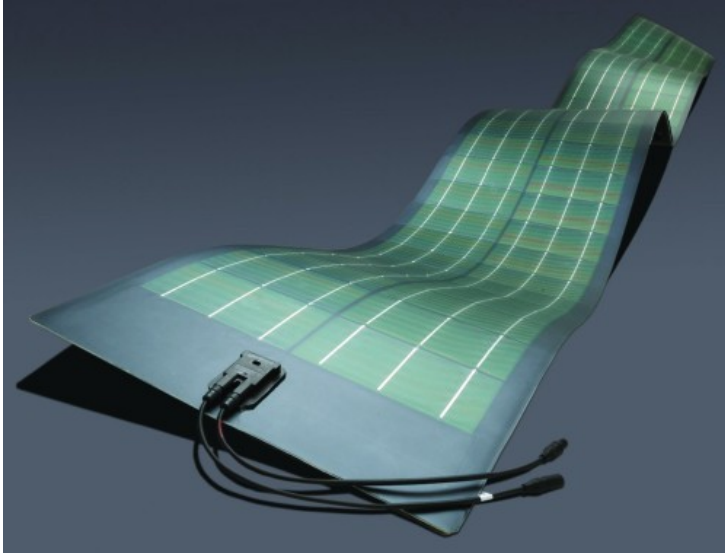


PowerFLEX+ 100W Thin Film Solar Module by Global Solar Energy



Price: CAD \$399.00 - CAD \$439.00

SKU: FG-M2BPx-100

Product Categories: [Shop](#), [Solar Modules](#)

Product Tags: [100w](#), [100w 100w cigs](#), [BAPV](#), [building applied](#), [cigs solar panel](#), [global solar](#), [global solar energy](#), [lightweight solar module](#), [powerflex](#), [powerflex+](#), [canada](#), [pv](#), [thin film](#)

Product Page:

<https://www.modernoutpost.com/product/powerflex-100w-thin-film-solar-module-by-global-solar-energy/>

Product Variants

- PowerFLEX+ 100W Thin Film Solar Module by Global Solar Energy - HelioBond Butyl Mastic ()
- PowerFLEX+ 100W Thin Film Solar Module by Global Solar Energy - None ()

Product Summary

The PowerFLEX+ 100W Thin Film Solar Module by Global Solar Energy. The right solution for roofs, awnings, and sidings where standard solar panels are not an option. Lightweight, sensitive in all light levels, and now up to 15% efficiency thanks to the latest CIGS solar cell development.

Product Description

The PowerFLEX+ 100W Thin Film Solar Module by Global Solar Energy. The right solution for roofs, awnings, and sidings where standard solar panels are not an option. Lightweight, sensitive in all light levels, and now up to 15% efficiency thanks to the latest CIGS solar cell development.

Global Solar Energy® has more flexible modules installed than any other CIGS manufacturer.

PowerFLEX®+ systems produce up to 4.5% higher energy yield than polycrystalline silicon systems, especially in hot, overcast, or low light environments, and at higher latitudes.

PowerFLEX®+ CIGS (Copper Indium Gallium DiSelenide) Building Applied Photovoltaic (BAPV) systems can make installations quicker, easier, aesthetically superior, and less costly for commercial and industrial rooftops.

PowerFLEX+ Advantages...

4.5% Higher Annual Energy Yield (kWh/kWp)

- Superior high temperature performance vs. p-Si (up to 3%)
- Performs better than p-Si in low and diffuse light conditions (up to 1%)
- Performs better than p-Si at low incidence angles (up to 0.5%)
- Superior Shade Tolerance
- 90% more efficient than flexible a-Si

Lightweight

- 3.0 kg/m² (0.68 lb/ft²) including adhesive
- 110 watts/m²
- 26% of the weight per roof area than p-Si

Rugged and Non-Breakable

- No damage from earthquakes, hail, golf balls, hurricanes, etc...
- Avoids theft and avoids vandalism
- Low profile - No added wind lift

Versatile Integration

- Fits any roof type
- Flexible and Conforming
- Can be applied to diameters as small as 50cm(20")
- Simple peel and stick application
- No mounting or grounding hardware
- No roof penetrations
- Low profile
- Lays flat. No racking or ballast required
- No added wind load nor wind lift
- Aesthetically pleasing
- Minimized module spacing maximizes roof coverage and power

Lower Maintenance Cost

- Requires less surface cleaning
- Soiling resistant surface
- Higher annual energy production

Electrical Specifications

Capacity rating P_{max} : 100W

Tolerance of P_{max} W : +5%

Rated voltage V_{mpp} : 32.0V

Rated current I_{mpp} : 3.2A

Open circuit voltage V_{oc} : 41.4V

Short circuit current I_{sc} : 3.7A

Operating Temperature : -40C to +85C

Use with an MPPT solar charge controller to maximize your Watt-Hour harvest from the solar panel.

Dimensions : 2068 x 494 x <3mm (81.4 x 19.4 x <0.12 inches)

Weight (without adhesive) : 2.4 kg (2.3 kg/m²) ± 5%

Junction Box & Connections :

TE Connectivity Micro Junction Box, 40mm²

2 Double Insulated PV Cable, 1000VDC, MC4 compatible connector (IP 67 Rated)

Top Surface :

Low reflectivity, and soil and dust resistant ETFE

Part Number : FG-M2BP(M or N)-(100)

Choose 'N' for no adhesive backing.

Choose 'M' for mastic adhesive on the backside (peel 'n stick)

Adhesive: ADCO HelioBond PVA 600BT butyl mastic

Certifications & Warranty :

EN 61646, EN 61730, UL 1703; Fire Rating UL790, Class C, CE Mark

Materials and workmanship : 5 years

Power output : 25 years (90% @ 10 yrs; 80% @ 25 yrs) Limited Warranty

Product Attributes

- Dimensions: N/A
- Adhesive: HelioBond Butyl Mastic, None

Product Gallery

