

180W SemiFlex Solar Panel with Integrated Edge Seal

Applications: Full rooftop solar installations for trailers and straight trucks supporting all-electric 24V or 48V TRU systems.

Keep your fleet running smoothly with a complete set of 180W SemiFlex Solar Panels designed for commercial transportation. This maintenance-free solution reliably charges all-electric TRU systems, helping fleet managers reduce diesel consumption and emissions.

Paired with a commercial maximum power point tracking (MPPT) charge controller, the panels maximize solar output to battery systems, extending battery life, preventing overcharging, and reducing maintenance costs.

The Place & Pull double-release liner enables quick, damage-free installation by minimizing panel flex, a common issue with other semi-flexible designs. This protects the high-efficiency Maxeon monocrystalline cells, ensuring exceptional power output and long-term durability.

With an integrated edge seal, the panel eliminates the need for external edge taping, reducing installation time while ensuring a clean, professional finish that withstands harsh conditions.

The 180W SemiFlex Solar Panel helps fleets reduce diesel consumption and emissions while also lowering operating costs, enhancing reliability, and improving overall performance.



Benefits

- Easy installation with integrated edge seal and Place & Pull double-release liner
- Pairs with MPPT charge controller for optimized charging and battery safety
- Rugged, self-cleaning surface
- High-efficiency Maxeon cells for maximum power output
- Designed, engineered, and assembled in the USA
- Tested to meet or exceed performance standards

PowerFilm[®]

ASSEMBLED IN THE USA

SOLAR[®]

Electrical Characteristics

Rated Voltage at Pmax	30.7V
Rated Current at Pmax	5.8A
Open Circuit Voltage	36.9V
Short Circuit Current	6.3A

*Typical specs measured at STC. Contact PowerFilm for maximum specs and tolerances for custom designs or complex applications.

Physical Characteristics

Part Number	R3-52F30.7VXB
Dimensions	48.1 x 31.9 x 0.1 inches 1,221.7 x 810.3 x 2.5 mm
Weight	~8.5 lbs / ~3.8 kg

Thermal Characteristics

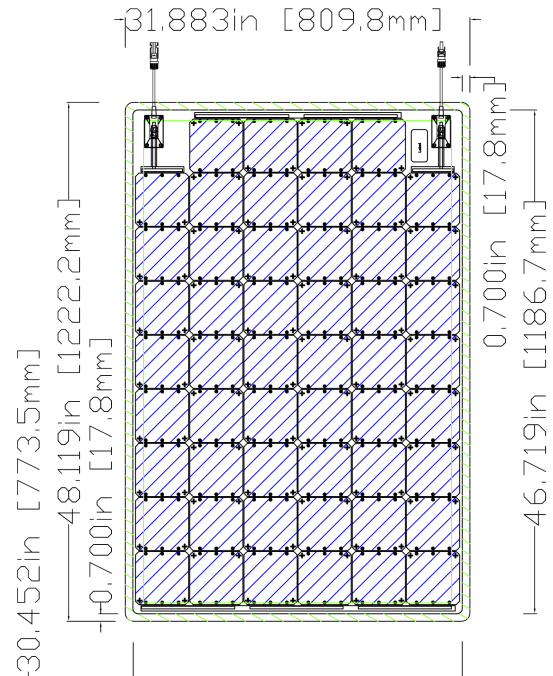
Temperature Coefficient for Power	-0.27%/°C
Temperature Coefficient for Voltage	-0.236%/°C
Temperature Coefficient for Current	0.058%/°C

Connector

- MC4

Certifications

- CE
- RoHS



IV Curve

