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400W Freightliner Cascadia Mid-Roof Fairing SuperFlex Solar Panel with Integrated Edge Seal

Applications: EPU battery and starting battery management for a Freightliner Cascadia tractor with a sleeper cab and mid-roof fairing.

Keep your fleet running smoothly with the 400W Freightliner Cascadia Mid-Roof Fairing SuperFlex Solar Panel, designed for commercial transportation. This maintenance-free solution reliably charges EPU and vehicle starting batteries simultaneously, helping fleet managers reduce idle time.

Paired with a commercial maximum power point tracking (MPPT) charge controller, the panel maximizes 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 400W Freightliner Cascadia Mid-Roof Fairing SuperFlex Solar Panel helps fleets reduce diesel consumption and emissions, increase battery life, and cut operating costs—improving reliability, efficiency, and 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

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Electrical Characteristics

Rated Voltage at Pmax	33.6V
Rated Current at Pmax	11.6A
Open Circuit Voltage	40.5V
Short Circuit Current	12.6A

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

Physical Characteristics

Kit Part Number	CTK-FM-400-17 <i>The kit includes solar panels, a charge controller with wiring harnesses, and installation hardware.</i>
Dimensions	~86.0 x ~60.0 x 0.1 inches ~2,184.4 x ~1,524.0 x 2.5 mm
Weight	20.4 lbs / 9.2 kg

Thermal Characteristics

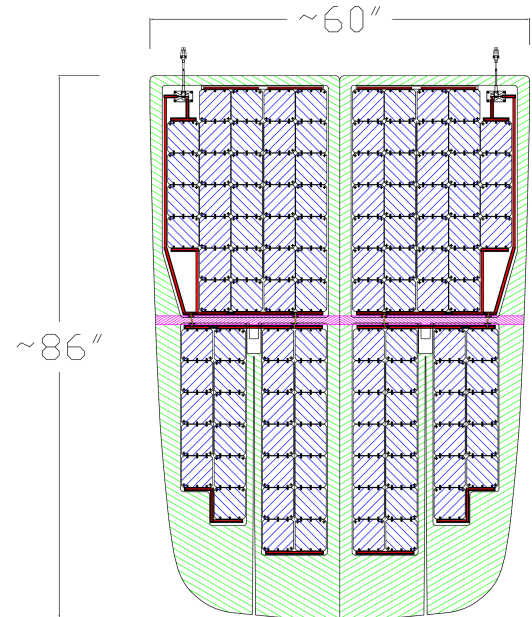
Temperature Coefficient for Power	-0.27%/°C
Temperature Coefficient for Voltage	-0.236%/°C
Temperature Coefficient for Current	0.058%/°C

Connector

- Aptiv Weather Pack

Certifications

- CE
- RoHS



IV Curve

