

440W Freightliner Cascadia SuperFlex Solar Panel with Integrated Edge Seal

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

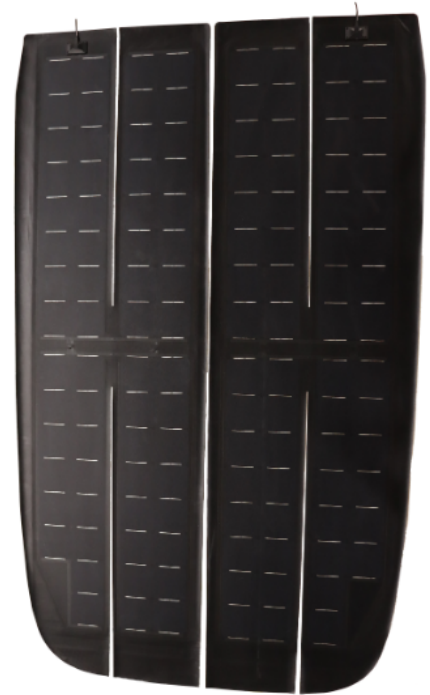
Keep your fleet running smoothly with the 440W Freightliner Cascadia SuperFlex Solar Panel, designed for commercial transportation. This maintenance-free solution reliably charges EPU and vehicle starting batteries simultaneously, helping fleet managers reduce idle time.

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 440W Freightliner Cascadia 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

PowerFilm[®]

ASSEMBLED IN THE USA

SOLAR[®]

Electrical Characteristics

Rated Voltage at Pmax	36.6V
Rated Current at Pmax	11.6A
Open Circuit Voltage	44.0V
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-F-440-17 <i>The kit includes solar panels, charge controllers with wiring harnesses, and installation hardware.</i>
Dimensions	95.1 x ~58.2 x 0.1 inches 2,415.5 x 1,478.3 x 2.5 mm
Weight	23.4 lbs / 10.6 kg

Thermal Characteristics

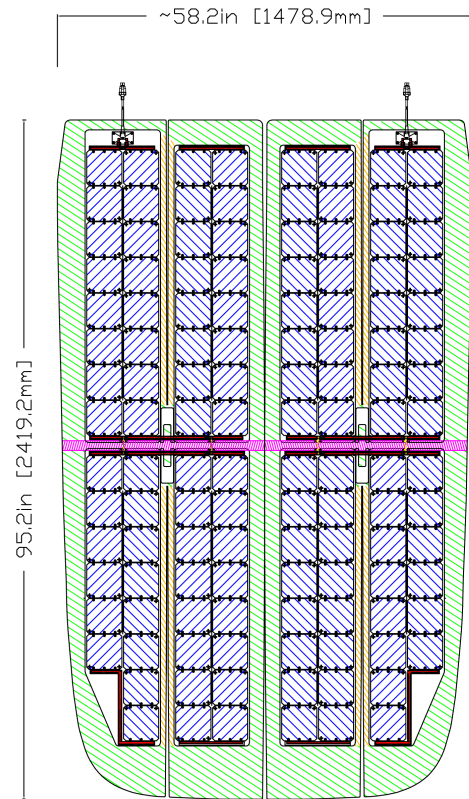
Temperature Coefficient for Power	-0.27%/°C
Temperature Coefficient for Voltage	-0.236%/°C
Temperature Coefficient for Current	0.058%/°C

Connector

- Aptiv Weather Pack

Certifications

- CE
- RoHS



IV Curve

