

## Docking Station



ESL's UL Listed patent pending eTRUconnect™ *PS Series* provides **safe utility shore power to electric or hybrid refrigerated units on truck trailers**, eliminating emissions while loading/unloading or idle. Connecting electric or hybrid refrigerated units to shore power eliminates the need of running onboard diesel generators/engines to keep the cargo within the optimal temperature range. This results in significant savings attributed to much lower electric energy cost. eTRUconnect's, safe and simple connection and disconnection procedure allows truck operators to use the system while minimizing the risk of injury and the liability to the facility owner. **ESL's eTRUconnect is the ideal solution for distribution centers, warehouses, grocery stores and truck stops.**



## Function

ESL's eTRUconnect is available for truck trailers with plug-at-front or plug-at-rear connections using **safety-interlocked standard IEC 4-pin configuration connectors that are compatible with most OEM equipment**. With ESL's solution, there's no need to adopt expensive proprietary connectors.

ESL's solution cannot be energized until the 4-pin female plug and the truck-trailer inlet are completely mated. Similar to other more expensive systems, eTRUconnect relies on a safety-circuit loop to ensure safe connection and energization.



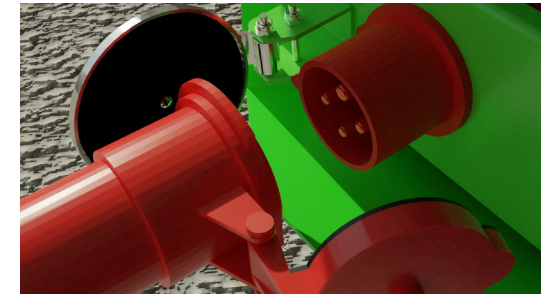
Unlike competing technologies, **ESL's innovative design does not require 2 extra pilot pins at the connector**. A connection detection device is embedded in the safety-interlocked IEC female plug installed at the end of the cable. This allows truck owners to use the OEM provided inlet for plug-at-front configuration or retrofit their fleet with ESL's cost effective plug-at-rear kit.

Added safety features include unintended drive-off and electrical branch circuit protection. In the case of a drive-away, the eTRUconnect *PS Series* has connections within the enclosure that easily pull apart, shutting power off within milliseconds, minimizing equipment damage and eliminating the

risk of injury. For electrical protection, ESL's eTRUconnect contains a 3-pole molded case circuit breaker (available at multiple AIC ratings) that protects against overloads and short circuits.

## Truck-Trailer Kit

ESL's Truck-Trailer Kit allows the user to connect to the back end of the truck (plug-at-rear) utilizing the same safety-actuated 4-pin system. Our IEC inlet kit can be easily retrofitted or mounted on any new truck-trailer providing a shorter (5-10ft) connection to the docking station with the extended benefit of an easy break-away in case of drive-offs. **This solution provides two break away points, at the docking station and the truck inlet providing redundant safety.**



## Cost

Since ESL's solutions utilizes the standard IEC 4-pin configuration that mates to most OEM ETRUs, **the cost of ownership is substantially less than retrofitting to a proprietary 6-pin system**. eTRUconnect docking stations can be daisy-chained, reducing the number of circuit breakers required in the upstream panel board thus significantly decreasing the initial project investment.

## Environmental Protection and Compliance

Utilizing the eTRUconnect provides substantial improvement in efficiencies and meets all SmartWay™ requirements, helping to improve the environmental impact of the trucking industry.

It is important to understand that pending environmental regulations in California may restrict TRU Diesel idling time to a maximum of 5 minutes by 2025. eTRUconnect meets the CARB standards for air pollution and is compliant with all regulations.



SmartWay™ is a trademark of the E.P.A.



- Provides safe utility shore power to electric or hybrid refrigerated units on truck trailers
- Utilizes safety-interlocked standard 4-pin IEC configuration connectors that are compatible with most OEM equipment
- Available for truck-trailers with plug-at-front or plug-at-rear connections
- Cannot be energized until the 4-pin plug and the receptacle are mated
- Includes both unintended drive-off feature and integral circuit breaker for electrical branch circuit protection
- Results in significant savings attributed to much lower electric energy cost
- Ideal solution for distribution centers, warehouses, grocery stores and truck stops
- UL Listed



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## REFRIGERATED TRUCK-TRAILER SHORE POWER SOLUTIONS



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