

ESL + PROCONNECT Shore Power



**DE-CARBONIZATION
REDUCING CO₂
EMISSIONS IN PORTS**



Cruise/Container Ships

max 500A
max 12kV

max 350A
max 7.2kV



Cruise Vessel Shore Power Assembly, Pad Mount
ESL P/N: 5200-177-US



Commercial Shore
Power Assembly Box
ESL P/N: 5200-29 - Series

ESL's commercial ship-to-shore power solutions provide innovative, safety-interlocked, marine-grade connections for cruise ships, ferries, ro-ro vessels, commercial ports, and yacht marinas. Designed to meet IEC/IEEE 80005 High Voltage Shore Connection (HVSC) standards, ESL offers customized solutions to ensure reliable, high-quality power in demanding marine environments.

ESL's shore power units with PROCONNECT plugs support greener, more efficient maritime operations, by providing safe, high-quality power connections that reduce environmental impact and enhance port efficiency worldwide.

Highlighted Shore Power Features:

- 12GA Type 304 stainless steel Type 4X, powder coated enclosure
- Up to 320A 7.2kV shore power receptacles for container ships
- Up to 500A 12kV shore power enclosures for cruise ships
- Earthing switch
- Fiber optic box
- Trapped key interlock



3PX6-MV
IEC 80005-1
ANNEX C



3PXU-MV
IEC 80005-1
ANNEX C



Ferries / RoRo

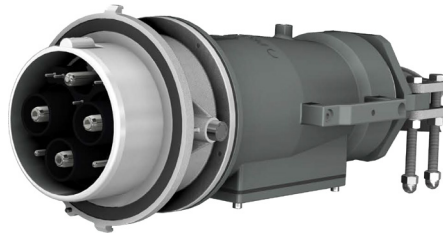
max 500A
max 12kV



Shore Power Outlet
ESL P/N: 5200-167



80005-1 ANNEX B



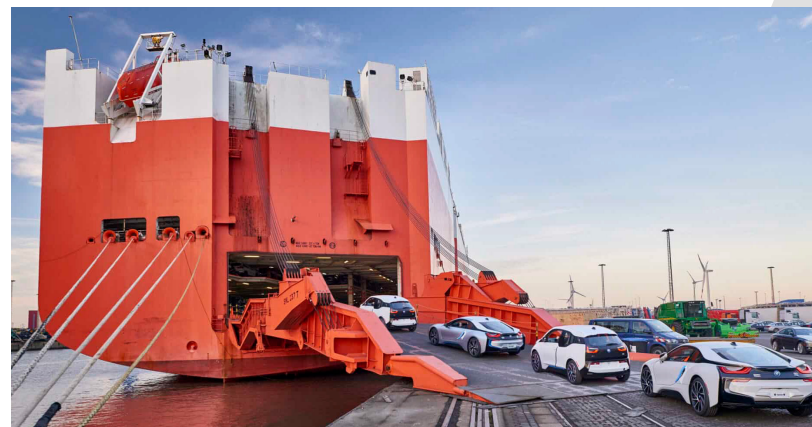
3PX7 IEC62613-2
ANNEX J

The ferry industry is increasingly turning to shore power solutions to enhance operational efficiency and reduce environmental impact. Shore power allows vessels to connect to the local electrical grid while docked, enabling them to shut off auxiliary engines, reducing fuel consumption and emissions. This industry has seen increased benefits for over night docking needs.

Docking Advantages with Shore Power:

- **Operational Efficiency:** Access to a reliable electricity source ensures uninterrupted power for critical systems such as lighting, heating, and cooling, making extended docking periods more efficient.
- **Environmental Benefits:** By using shore power, ferries can significantly reduce diesel emissions, improving air quality in port areas.
- **Cost Savings:** Reducing fuel consumption during docking translates to substantial cost savings over time.

Ro-Ro vessels (Roll-on/Roll-off ships) also benefit from shore power, especially during extended port stays. By connecting to shore power, Ro-Ro vessels can eliminate the need for auxiliary engine use, reducing emissions and contributing to more sustainable port operations.





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