

PLUG INTO

SHIPYARD

SAFETY



Custom-Engineered Electrical Power
Distribution Systems for Safe
Shipyard Marine Solutions

ESL
POWER SYSTEMS



ESL MARINE GRADE POWER DISTRIBUTION SYSTEMS

Safety-Interlocked for Added Protection.

ESL - A GLOBAL LEADER IN SAFETY-INTERLOCKED ELECTRICAL POWER SYSTEMS



Shipyards, dockyards, and ship breaking facilities are tough, abusive, and often dangerous work environments.

That's why ESL is delivering safer, more dependable ways to distribute electrical power service throughout these demanding industrial facilities. Since 1993, ESL has pioneered designing new electrically and mechanically interlocked electrical devices and systems that are built to provide increased user safety and unbeatable industrial durability.



Safety and Flexibility – ESL Portable Welding Power Station equipped with eight 3-phase 60AMP 480VAC Interlocked Power Outlets to safely power welding and other industrial electrical equipment.



Durable and Weatherproof – ESL Power Distribution Station (PDS) are made out of manufactured 304 Stainless Steel which is powder-coated after fabrication to ensure longevity in harsh environments. PDS units are NEMA 4X rated which guarantees trouble-free outdoor operation.

RUGGED SAFETY-INTERLOCKED POWER OUTLETS DELIVER SUPERIOR PROTECTION

ESL's industrial electrical products improve power delivery, flexibility, and safety in the harshest, most demanding shipyard and marine environments. ESL has a global track record of delivering dependable watertight products that are safer to use than traditional pin & sleeve devices. ESL's Safety-Interlocked Power Outlets are engineered to provide greater operator/equipment safety due to the '3-Way Power Safety' approach:

- 1) **Electrical Protection:** Ground pin-actuated interlock prevents making or breaking an electrical contact under load.
- 2) **Manual Protection:** Manual operating rod works as a line of sight disconnect.
- 3) **Circuit Breaker Protection:** UL-Listed molded case circuit breaker provides maximum branch circuit protection.



WE BUILD POWER DISTRIBUTION SYSTEMS AS TOUGH AS THE SHIPYARDS YOU WORK IN



13-Gang Power Distribution Station

ESL produces a broad range of electrical power distribution systems for shipyard, dockyard, container port, super terminal, and shipboard applications.

Massive amounts of electrical power are needed to build, repair, modernize, or dismantle a ship. The same goes for fabricating or overhauling barges, yachts, or drill platforms. ESL expertly engineers and manufactures the electrical components that make distributing power easier, safer and more efficient:

- Multi-Gang Power Distribution Centers
- Safety-Interlocked Power Outlets
- Multi-Gang Welding Power Units
- Portable "Spider Box" Power Units
- Ventilation Fan Power Outlet Assemblies
- Watertight Male Plugs
- Arc Flash Protection Devices
- Factory Rebuilding Existing Equipment
- Shipboard Power Sockets



Portable 24-Gang 30AMP Outlet



2-Gang MIL C Shore Power Assembly

Portable Welding Power Unit.



Portable Power Outlet Assembly



100A-480VAC Single-Gang.



200A Single-Gang Outlet Assembly



Single Pole Shore Power Distribution Cabinet



Portable Welding Power Station



400A Cam-lock Style Distribution Unit

ESL provides customized solutions for all temporary shipyard power distribution needs.

RUGGED POWER SOLUTIONS WITH LONG-TERM BENEFITS

All ESL products are designed and manufactured to deliver top performance.

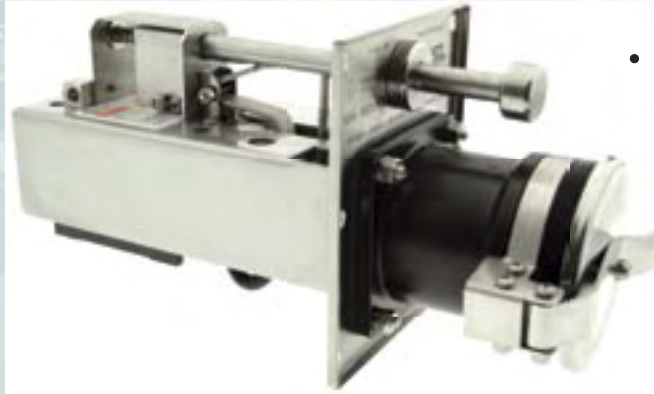
- Custom-designed power distribution for any maritime application
- Industrial marine grade construction stands up to shipyard punishment
- Dramatically improves worker safety by reducing risk of arc flash injury
- Delivers maximum flexibility wherever power is needed
- Wide variety of cost-effective configurations can meet project specs
- Products are UL/C-UL Listed, meeting IEC standards where applicable
- Components meet NEMA Type 4X Watertight requirements
- UL Listed/CSA Certified Molded Case Circuit Breakers
- No need to replace male plugs – ESL builds to mate with existing configurations.

SAFETY AND DURABILITY ARE DESIGNED INTO EVERY ESL POWER SUPPLY SOLUTION

NEARLY INDESTRUCTIBLE SAFETY-ENGINEERED ELECTRICAL PRODUCTS

At the heart of every ESL power distribution center is our Safety-Interlocked Power Outlet. Starting with its heavy duty stainless steel construction, these outlets are designed to withstand the brutal abuses of shipyard/marine use.

- Heavy duty stainless steel industrial construction provides superior anti-corrosive protection and resistance to abuse.



- Stainless steel housing, actuator rod & handle, and snap cover provide long-life service.

- O-ring seals maintain watertight integrity of wiring compartment.

- UL-Listed molded case circuit breaker provides maximum operator & equipment protection. Approved for branch circuits. 22 KAIC standard interrupting capacity with higher interrupting capacities available.



- Socket's nickel-plated brass contact sleeves stand up to corrosion and provide lower operating temperature.



- ESL's socket design provides superior resistance to arcing – and greater operator protection -- by reducing the risk of shock hazard and by providing greater protection from serious arc flash injury.

The Growing Need for Electrical Safety

OSHA is pushing for improvements in protection from arc flash hazards in particular, and for greater user/operator electrical safety in general. Arc flash protection as defined by NFPA 70E requires that electrical power must be assured to be off before work can be performed. ESL's Safety-Interlocked devices provide the perfect combination of increased safety, custom construction, and superb durability.



SAFETY-ENGINEERED POWER OUTLETS MEET NEMA 4X STANDARDS

1. The ground pin-actuated Safety-Interlock design prevents making or breaking an electrical contact under load, providing far greater safety than traditional pin & sleeve devices.
2. Easy to operate actuator rod works as a line of sight manual disconnect.
3. Built-in UL Listed Molded Case Circuit Breaker provides maximum branch circuit protection for connected equipment. Standard breaker provides 22 KAIC interrupting capacity and can withstand multiple high ampere trips. Higher interrupting capacities are available.





ELECTRICAL POWER DISTRIBUTION SYSTEMS FOR SAFE SHIPYARD APPLICATIONS.

Built to spec. On time. On budget.

We're focused on one thing – your complete satisfaction

- Safety-Interlocked outlets prevent arcing and arc flash injury*
- Personalized customer care assures cost-effective, innovative solutions
- Quality assurance team guarantees meeting your specifications
- Products are UL/C-UL Listed, meeting IEC standards where applicable
- Components meet NEMA Type 4X Watertight requirements
- Specialized in fast-turnaround custom-engineering
- Experienced with retrofit upgrades and new construction
- Systems match your existing installed plugs, eliminating the need for replacing all existing plugs.



** See reverse side for further information regarding the safety advantages of ESL Safety-Interlocked products.*



ESL Power Systems, Inc.

2800 Palisades Drive • Corona, CA 92880-9427

Tel: (951) 739-7020 • (800) 922-4188 • Fax: (951) 739-7048

www.eslpwr.com • info@eslpwr.com