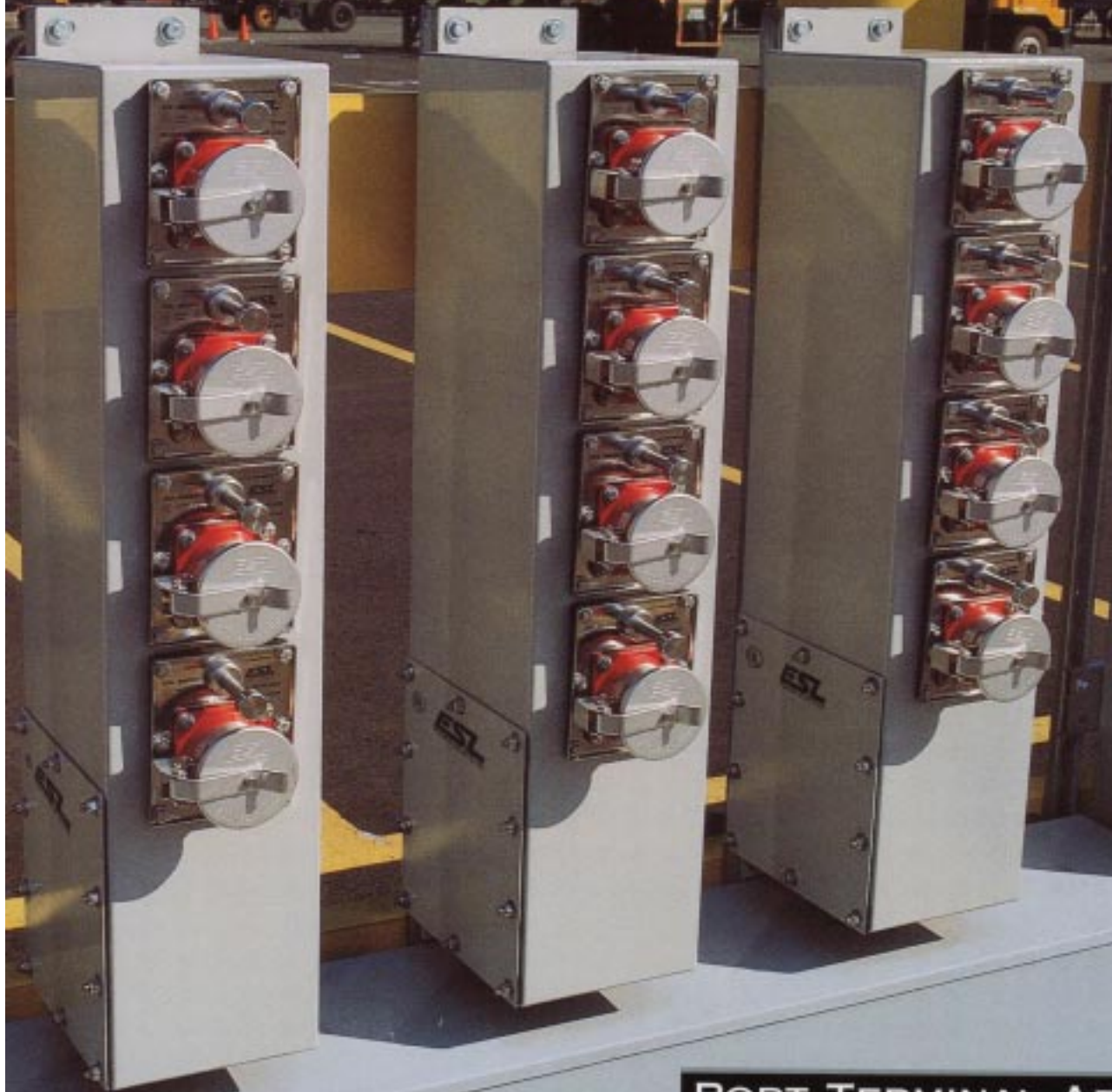


**MODULAR POWER OUTLETS
FOR REFRIGERATED
CONTAINERS**



PORT TERMINAL APPLICATIONS

INTRODUCTION



ESL is a leader in the design and production of safe, reliable equipment to power refrigerated containers worldwide. ESL specializes in customer satisfaction, quickly devising innovative and cost-effective solutions for a wide range of applications; from retrofit kits that update existing equipment to the CEE-17 3h configuration, to turn-key designs for the numerous different multi-gang assemblies required in the construction of new Super-Terminal facilities.



ESL's designs incorporate end-user valued features and are constructed with superior materials with the latest manufacturing techniques to ensure the highest quality standards are achieved; products are UL/C-UL Listed and meet IEC, ISO, GL, ABS and USCG standards where applicable.



Located in California nearby the Ports of Los Angeles and Long Beach, ESL manufacturing facilities employ individuals as dedicated to quick response and high quality production as the rest of the management team.

INNOVATIVE OUTLET SOLUTIONS



Powder-Coated Stainless Steel Enclosures, as supplied to Berth 88 in the Port of Long Beach (see picture above), are just one of the many innovations ESL has introduced to the intermodal industry. Available in a wide range of colors, powder-coated stainless steel offers superior resistance to corrosion and discoloration, ensuring the equipment will look and perform like "new" for many years to come. The traditional "brush finish" is available if requested to complement existing equipment.

As the market leader, ESL is continuously improving existing products and developing new designs and manufacturing techniques to provide the safest and most cost-effective power connection systems for intermodal customers worldwide. All major components are manufactured and assembled in the U.S., enabling ESL to closely monitor product quality while meeting the delivery schedules demanded by the intermodal industry.

SAFETY INTERLOCKED

UL 489 Listed Circuit Breaker with 22K Amp Interrupting Capacity

- Maximum Operator & Equipment Protection
- Approved for Branch Circuits
- Higher Interrupting Capacities available, upon request

Heavy Duty SS Construction

- Withstands Marine Use and Abuse
- Superior Corrosion Resistance

Ground Pin Actuated, Actuator Rod Loaded, Interlock Mechanism

- Maximum Operator Safety
- Easy Plug Insertion
- Interlock Mechanism functions with or without Plug Polarization Tab



Extra Flexible Marine Grade Wire

- Designed for the Marine Environment
- Increases Service Life of Insulation & Conductors

Ferruled Wire Terminations

- Prevents Frayed Connections
- Lowers Operating Temperature
- Simplifies Service

O-Ring Seals

- Maintain Watertight Integrity of Wiring Compartment
- Protects without Cap or Plug

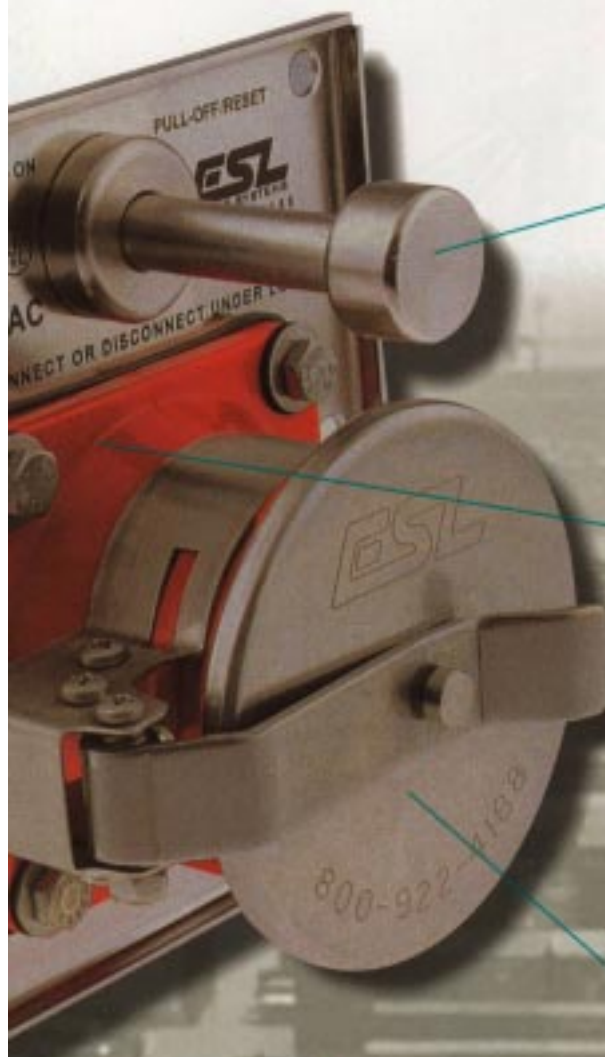


Nickel Plated Brass Contact Sleeves

- Superior Corrosion Resistance
- SS Constrictor Springs maintain uniform Contact Pressure
- Lower Operating Temperature

Dual SS Wire Terminal Screw

- Superior Wire Security
- Lower Operating Temperature
- Hex Drive SS Screws allow more Consistent Wire Terminal Torques



Heavy Duty SS Actuator Rod & Handle

- Superior Corrosion Resistance
- Withstands Severe Marine Abuse

One Piece Low-Profile Outlet Design

- Watertight without Cap or Plug
- Resists Internal Moisture

One Piece Low Profile Socket Design

- Superior Resistance to Arc-Tracking
- Resists Internal Moisture

Heavy Duty SS "Snap" Cover

- Strong & Corrosion Resistant
- Self Closing, Self Aligning
- Protects Contacts from Contamination

VERTICAL APPLICATIONS



7-Gang Rack Mount Assembly (4 other side)
Cat. No. E7-R32-480-30-65LM-SP-220133
DeltaPort Terminal, BC Canada

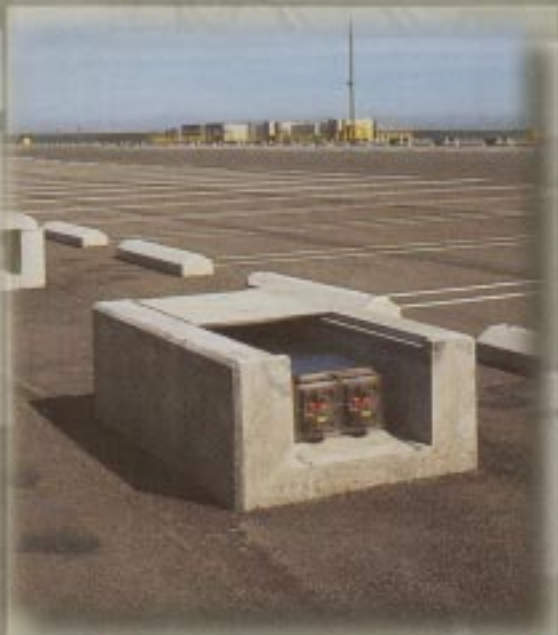


2-Gang Rack Mount Assembly (1 other side)
Cat. No. E2-R32-480-30-65LM-SP-220174
Port of Long Beach



4-Gang Pole Mount Assembly
Cat. No. E4-R32-480-30-65LM-SP-220288
Port of Seattle

HORIZONTAL APPLICATIONS



4-Gang Bunker Mount Assembly (2 other side)
Cat. No. E4-R32-480-30-22SB-SP-220001
Port of Los Angeles



4-Gang Bunker (Rock) Mount Assembly (2 other side)
Cat. No. E4-R32-480-30-22SB-SP-220217
Port of Long Beach



4-Gang Bunker Mount Assembly (2 other side)
Cat. No. E4-R32-480-30-22SB-SP-220285
Port of Tacoma

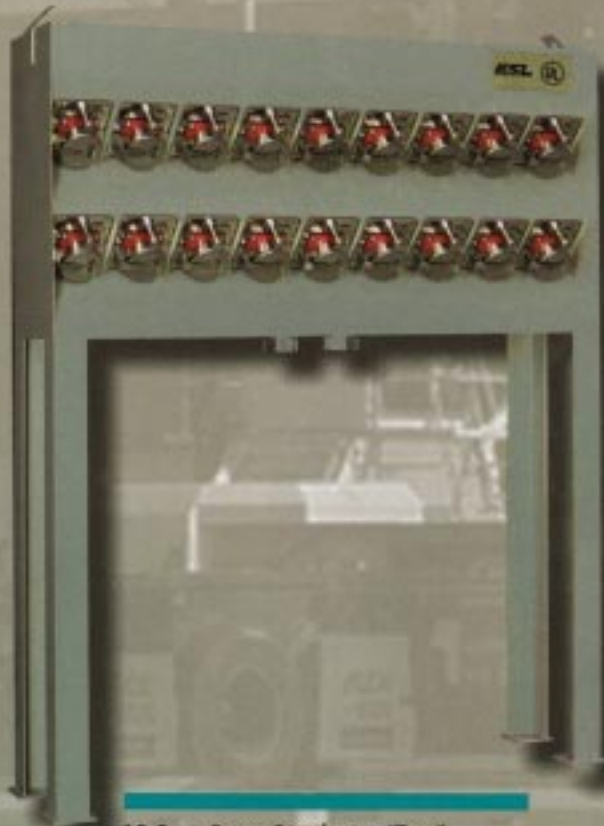
CUSTOM APPLICATIONS



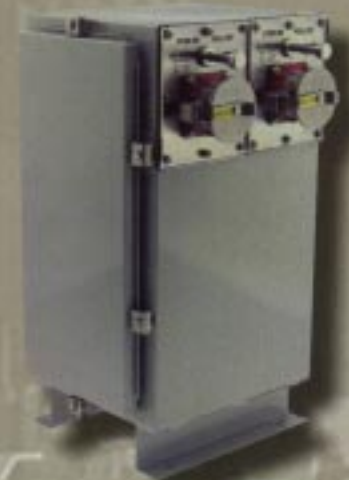
20-Gang Flush, End Wall Mount Assembly
Cat. No. E20-R32-480-30-225C-SP-220206
OEM/Power-Pack Applications



11-Gang Portable Power Distribution Assembly
Cat. No. E11-R32-480-30-225B-SP-220054
Portable unit for Port Terminal or Shipboard use



18-Gang Power Distribution "Tree"
Cat. No. E18-R32-480-30-225B-SP-220355
Power Distribution Panel for Port Terminals



4-Gang Pedestal Mount Assembly (2 other side)
Cat. No. E4-R32-480-30-25LE-SP-220118
Raised pad mounting option for Port & Rail
Terminal Applications

CUSTOM APPLICATIONS



6-Gang Surface Mount Assembly with integral
4-Pole and PCT Monitoring
Cat. No. E6-R32-480-30-225B-SW-220144
For Port/Ship/Rail Applications with Monitoring



15KVA Step-Down Portable
Transformer
Cat. No. XK-32-480-60-240
Safety Interlocked for Port
Terminal or Shipboard use



Single-Gang Power Outlet Options:

- (above) Watertight Copper-Free Cast Aluminum Enclosure shown with 60A/240V Module
Cat. No. ER60-240-50-655B-5P-220247
- (right) Watertight Stainless Steel Enclosure shown with 32A/480V Module
Cat. No. ER32-480-30-225B-5P-220322
For Port Terminals, Ship and Rail Applications



Power and Monitoring Cable Assemblies:

- Reefer Power Extension Cords EC32-480-60
- OEM Power Cords PC32-480-70
- Interface Converter Cards CC50-60-240
- 4-Pole Monitoring Hook-up Cords EC-MS3106-12M
Port Terminal, Shipboard and Rail Applications



REEFER SHARING UNIT



ESL's RSU powers two refrigerated containers on an alternating basis from one existing power outlet

- Low Cost Alternative to Increase Reefer Capacity without Installing Additional Outlets; Alternately Powers (2) Frozen Loads from (1) Existing Outlet
- Low Cost Portable Back-Up for unplanned Maintenance during Peak Season
- Completely Safety Interlocked; "Cannot Make or Break Under Load"

Standard Features

"Intelligent Interlock" System maintains safety interlock of user's power outlet • "Smart Sharing" System maintains power to one reefer if the other outlet is not utilized • NEMA 4X IP67 Fiberglass Enclosure with Interlocked Hinge Cover ensures unit is watertight when operating • Monitoring Window allows verification of socket on/off indicator and timer setting • 25,000-hour Neon Pilot Light adjacent to each socket • UL Listed ESL Outlets with Spring Loaded, Self-aligning, Stainless Steel Snap Covers • Dead Front internal construction prevents access to high voltage components • Solid-State Encapsulated Timer with 5-position selector switch ensures long life and accurate settings from 2 to 10 hours • 10 ft. (3m) Power Cord with Male Plug can be wrapped around the combination handle/stand for portability and/or storage

Optional Features

SS Cable-tethered non-metallic Screw Covers • Quantity/duration of cycle time settings or continuously variable cycle adjustment • Hanger Brackets or Custom Mounting Provisions, Power Cord Length and Interface Configurations of Plug and Outlets

OUTLET SPECIFICATIONS

	Standard Frame Faceplate Dimensions		Standard Frame Cutout Dimensions		
Electrical Designation	Face View Plug	Face View Socket	Mounting Dimensions (mm)		ESL Catalog No.
30 AMP 240 VAC					R30-240-50-655C
50 AMP 240 VAC					R50-240-50-655C
32 AMP 380/440 VAC CEE-17 3h					R32-480-30-225C R60-240-50-655C
60 AMP 240 VAC					R60-240-50-655C
60 AMP 480 VAC					R60-480-50-225C

	Large Frame Faceplate Dimensions		Large Frame Cutout Dimensions		
Electrical Designation	Face View Plug	Face View Socket	Mounting Dimensions (mm)		ESL Catalog No.
32 AMP 380/440 VAC CEE-17 3h					R32-480-30-65LM
60 AMP 480 VAC					R60-480-50-65LM

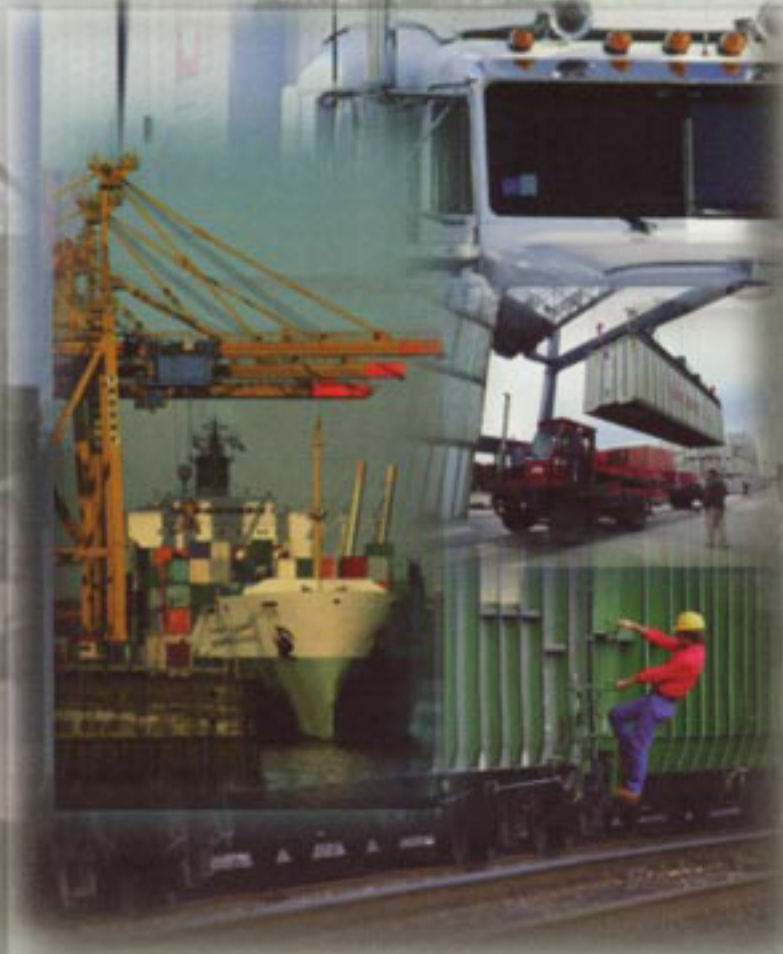
Standard Features

SS Self Aligning Snap Cover • Ground Pin Activated Interlock Mechanism • UL Listed (489) Circuit Breaker • Circuit Breaker Ratings: 50A @ 240 VAC & 65K AIC; 30A @ 480VAC & 22K AIC • Construction: SS Frame & Interlock Mechanism, Non-Metallic Outlets, Nickel Plated Brass Contacts

Optional Features

Non-Metallic IP 67 Screw Cover with Coated SS Tether • Cast SS Outlet Housing & Cover • Non-Standard Circuit Breaker Trip & AIC Ratings • Electrical Interlocking Mechanism • Monitoring components including Circuit Breaker Auxiliary Contacts, 4-Pole Sockets & PCT Systems

**SAFE AND POWERFUL SOLUTIONS
FOR TODAY'S REFRIGERATED
TRANSPORTATION NEEDS**



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