



LAYERZERO
POWER SYSTEMS, LLC.

The Foundation Layer

Series 70: eSTS

800 A 240/415 V 4-Pole Static Transfer Switch



Product Brochure

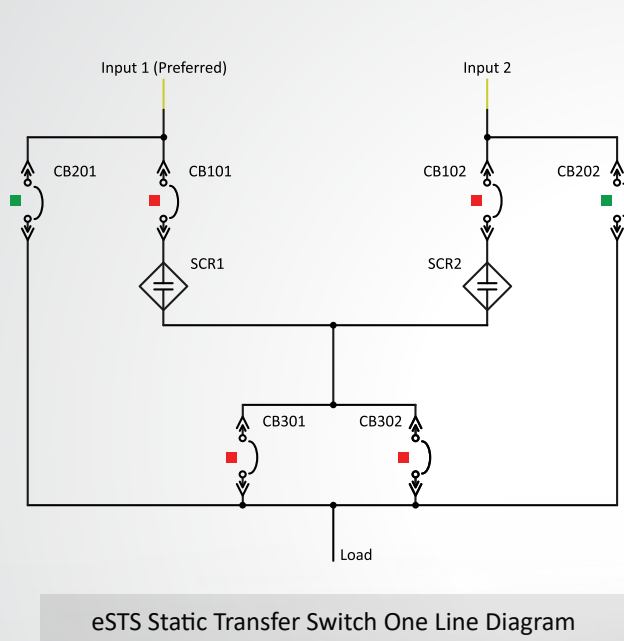
The LayerZero eSTS Static Transfer Switch

Maximizes Power Reliability

eSTS Automatically Transfers Between Two or Three* Power Sources

LayerZero Power Systems designs and manufactures the world's **most reliable** static transfer switch, built for mission-critical environments where uptime is non-negotiable. The Series 70 4-Pole eSTS is a solid-state transfer switch that automatically or manually transfers power between two in-phase AC sources within a quarter cycle. With an open-transition design, transfers are executed in a way that minimizes disruption to the connected load while ensuring that power sources are never cross-connected. One power source is designated as the preferred source. If the preferred source becomes unavailable, the system initiates a seamless, automatic transfer to the alternate source, maintaining power continuity without interruption. For emergency transfers between asynchronous sources, the eSTS utilizes dynamic phase-compensated transfers, which are specifically designed to minimize the saturation of downstream transformers in 3-phase, 4-wire systems. This intelligent transfer mechanism enhances overall power quality and system stability.

*Optional



Control Electronics

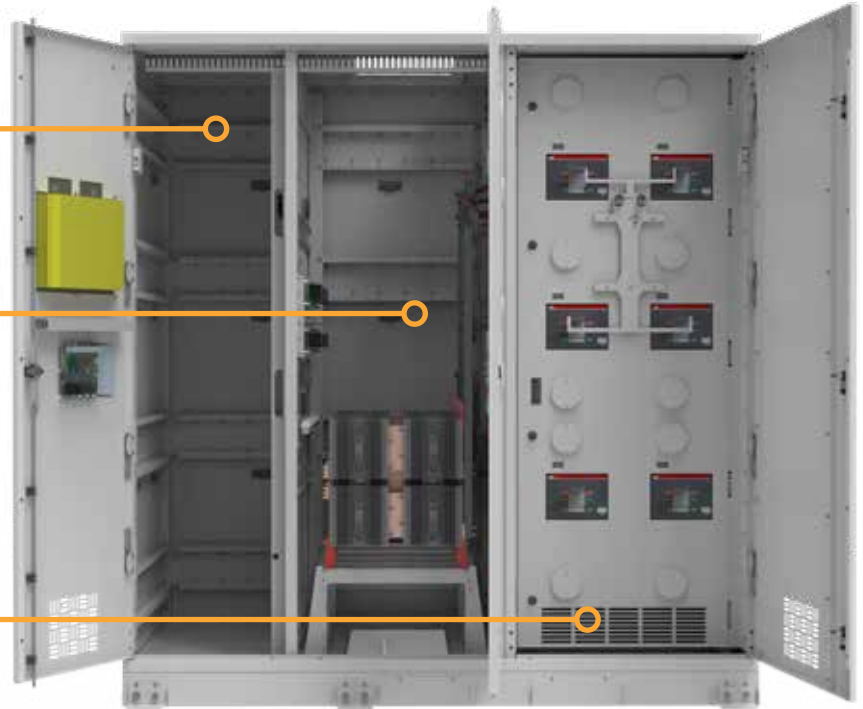
- System Control & Data Acquisition Boards
- SCR Gate Drives
- Redundant Power Supply System
- I/O system; VPN Router

Power electronics

- SCRs (Silicon Control Rectifier) in Convection Cooled Heat Sinks

CB Section Contains:

- Input isolation switches
- Bypass isolation Switches
- Output isolation switches
- Source connection terminals
- Load connection terminals



CB101 Source 1 Isolate

CB102 Source 2 Isolate

CB201 Bypass Isolate, Source 1

CB202 Bypass Isolate, Source 2

CB301 Output Isolate 1

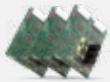
CB302 Output Isolate 2, (Redundant, Optional)

Heat Sinks and SCRs

Standard Features

Every LayerZero Power Systems eSTS is built with a comprehensive suite of standard features designed to deliver exceptional power reliability, elevate operational safety, and streamline efficiency. These built-in capabilities reflect LayerZero’s commitment to innovation and performance, making our static transfer switches the preferred choice for mission-critical facilities across a wide range of industries.

Reliability



Optional Triple Modular Redundancy:
Fully-independent control paths ensure no single point-of-failure.



Safe Bypass Procedure:
Mechanical bypass interlock prevents human errors during bypass procedures.



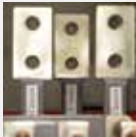
Voice Guided Bypass:
Audio-video guidance offers step-by-step instructions for operators.



Convection Cooling:
Natural cooling system is maintenance-free.



Epoxy Coated Buswork:
Eliminates potential bus-to-bus faults.



Silver Plated Terminals:
Superior conductivity for enhanced electrical performance.



Maintenance-Free Joints:
Permanent brazed joints ensure longevity.



Machined Hardware:
Constant torque throughout product life.



Optical Fiber Based Controls:
Noise and interference free controls while ensuring high voltage isolation.



Serialized Critical Board Tracking:
Active database tracking for essential boards.

Safety



INSIGHT IR® Cameras:
Monitor bolted connections for temperature anomalies.



Sectionalized Components:
Allows safe de-energization for maintenance.



Polycarbonate Windows:
View critical board LEDs with closed dead-front door.



Front-Only Access:
Safe installation and maintenance without side/rear access.



Dead Front Hinged Doors:
Ensures a safe work environment with no exposed live parts.

Connectivity

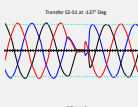
Ethernet Connectivity:
Secure VPN router for remote monitoring.

Modbus/TCP:
Connect to existing systems without proprietary restrictions.

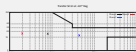
NTP Time Clock Synchronization:
Enables timeline-based event logging.

SNMP Connectivity:
Remote management via SNMP.

Power Quality Monitoring



Real-Time Waveform Capture:
Captures a picture of the power three-cycles before and after every event.



ITIC Plotting:
Analyze if equipment was affected by power quality events.



Local Touch-Screen Interface:
Secure interface for local STS operations.



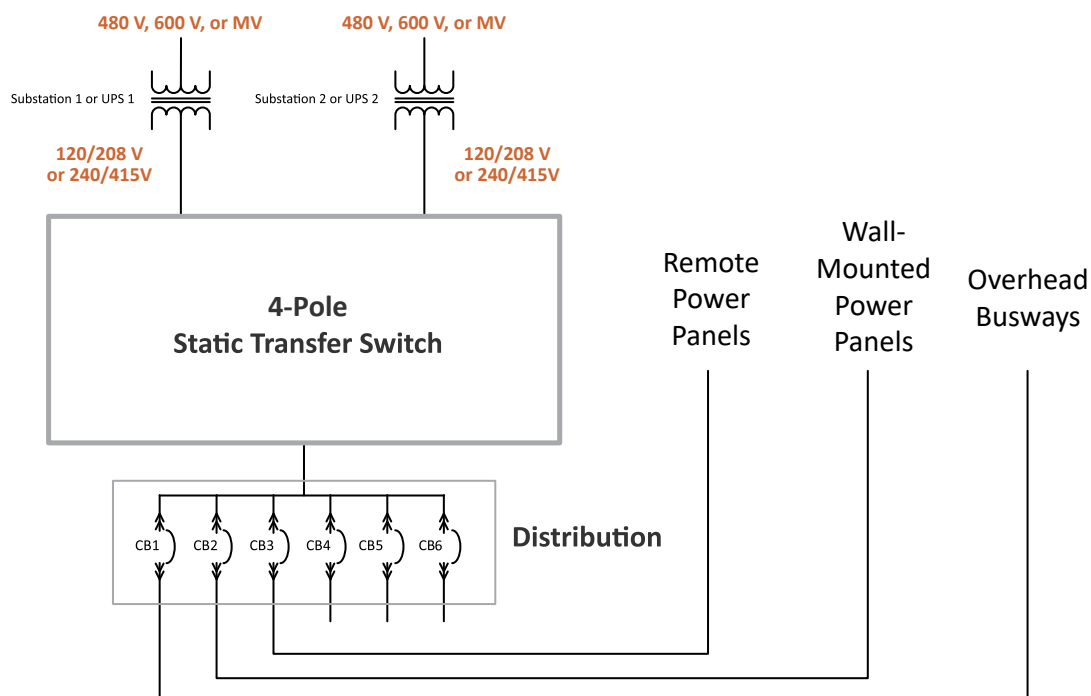
Waveforms Automatically Emailed:
Send waveforms to designated individuals post-transfer.

The 4-Pole eSTS Lowers Infrastructure Costs While Maintaining High Reliability

Increasingly, data center operators aspire to increase their energy efficiency; and thus reduce their operating costs. A popular technique deployed to achieve higher efficiency of critical operations is to minimize the number of AC power transformations between the building entrance to the eventual critical load. Facilities are being designed to step down voltage at the incoming substation to 240/415 V level; and UPS systems are being deployed with native 4-wire, 240/415 V output. Critical loads are operated at 240 V L-N. The cost of cabling in the facility is optimized at a higher voltage; and the loss of efficiency from another voltage transformation to 120/208 V is avoided.

Against this back drop and in an environment which provides two independent sources of power, if a static transfer switch is needed to increase the reliability of power to the critical load; and/or to increase the concurrent maintainability of the facility's electrical infrastructure then the static transfer switch must be a **four pole** switch. The transfer mechanism must transfer phase conductors (A, B & C) in an open transition manner; while ensuring that the transfer of the neutral between adjacent sources is completed without interruption to the neutral conductor.

LayerZero's 4-pole eSTS is the most reliable, connected and information centric product designed for this application. LayerZero uniquely uses SCR based solid-state transfers for phases A, B, C **and** Neutral. Further, for operator safety LayerZero deploys 4-pole breakers for input, output and bypass isolation.



Reliability Overview

LayerZero eSTS Reliability Overview

The LayerZero eSTS Provides Many Dimensions of Reliability:

- **Control System Reliability:**
 - **SMR (Single Module Redundancy, Standard):** Our foundational architecture ensures reliable and consistent operation under all conditions.
 - **TMR (Triple Modular Redundancy, Optional):** LayerZero’s TMR system goes beyond SMR by utilizing three independent control systems. Each operates in complete isolation, individually acquiring and processing voltage and current data. Even if one control path fails, the system seamlessly continues to function. This is not simply “triple redundancy.” It is a rigorously designed architecture for unparalleled reliability.
- **Control Power Supply Reliability:** Designed to deliver stable, uninterrupted power to control systems, preventing unexpected shutdowns or transfer delays.
- **Signal Reliability:** Designed for accurate, interference-resistant signal transmission, reducing the risk of miscommunication.
- **Operator Procedural Reliability:** Incorporates intuitive, safety-oriented features that support consistent, error-free user interaction, promoting system integrity and operator confidence.

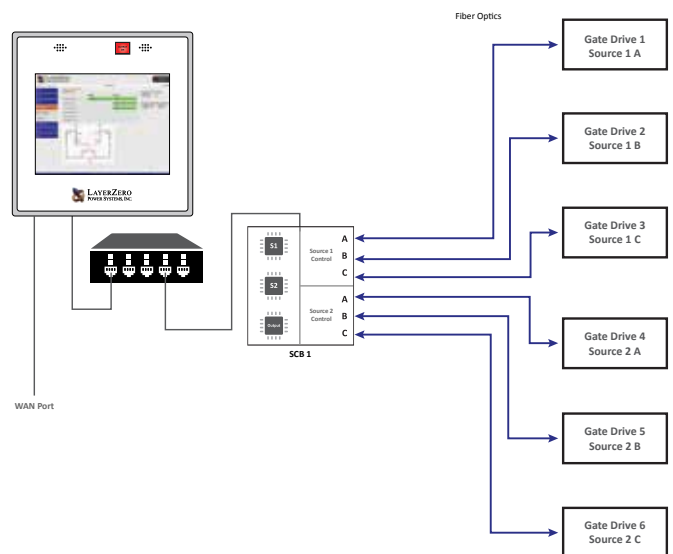


The Series 70: eSTS is designed for maximum reliability

Single Module Redundancy (SMR) Reliability (Standard)

LayerZero’s Single Module Redundancy (SMR) topology is a cost-effective solution that provides robust redundancy for mission-critical applications. In SMR systems, each source includes triple-redundant processors for enhanced reliability. Each phase is also managed by its own dedicated gate drive board, providing independent control and added fault tolerance.

What sets LayerZero’s SMR design apart is its fail-safe architecture. In the event of a complete failure of the primary SMR control system, power will continue to flow to the load from the active source, and automatic or manual transfers between sources will not be possible until the control system is restored.



Redundant Control Paths of LayerZero SMR Gate Drives

Reliability Features: Triple Modular Redundancy (TMR) *Optional

Triple Modular Redundancy (TMR) Reliability (Optional)

LayerZero’s Triple Module Redundancy (TMR) builds upon the robust foundation of our SMR architecture by integrating three independent analog and digital control systems within each static transfer switch. These systems are fully isolated. They do not share a clock, do not communicate directly, and are not dependent on one another in any way.

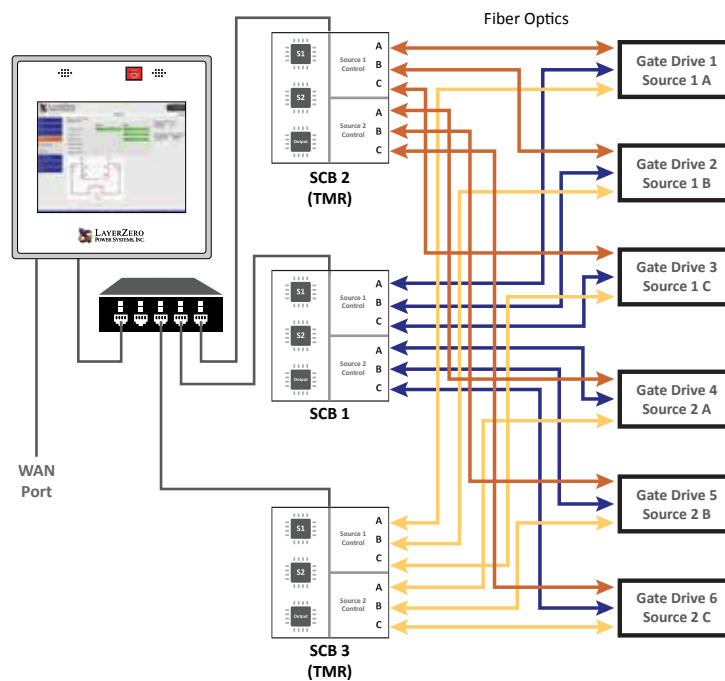
Each control module independently acquires real-time voltage and current data, evaluates the health of both power sources, and autonomously makes transfer decisions.

In the unlikely event of a complete failure in one control path, combined with the failure of the active power source, the eSTS will still successfully transfer to the alternate source, ensuring uninterrupted power to the load.

LayerZero’s implementation of TMR is grounded in rigorous statistical modeling and proven engineering principles. While other manufacturers may use terms like “tri-redundant” or “triple-redundant,” these solutions do not offer the same depth of isolation and resilience that define true Triple Modular Redundancy as implemented by LayerZero.



Three System Control Boards (SCBs) in a TMR Configuration



Redundant Control Paths of a TMR Configuration

Reliability Features: Single Module Redundant (SMR) Redundancy

eSTS SMR Triple Redundant Power Supply Architecture

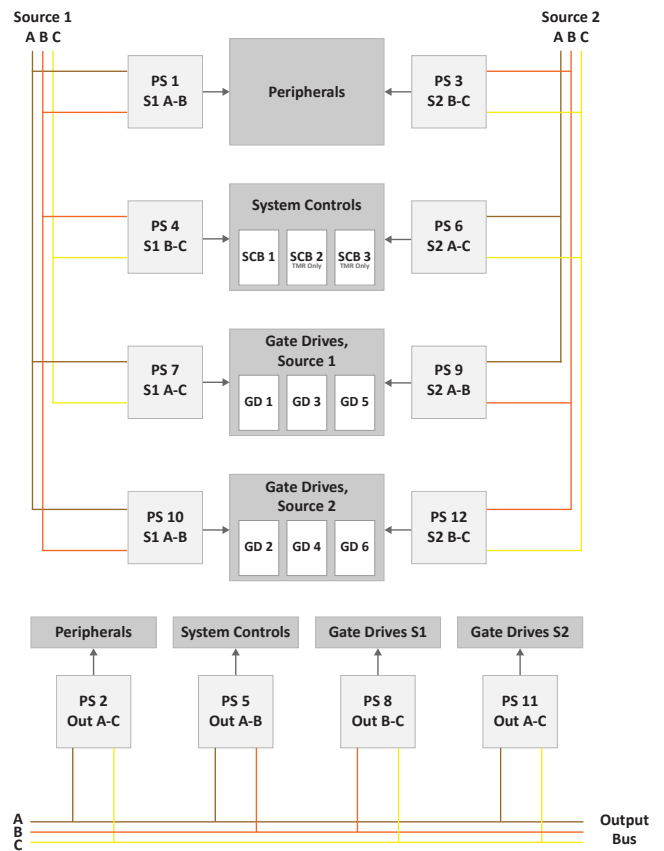
Divided into four (4) logical failure groups:

- System controls
- Source 1 gate drives
- Source 2 gate drives
- Peripherals.

The three (3) available source of power from which to supply control power to each failure group are:

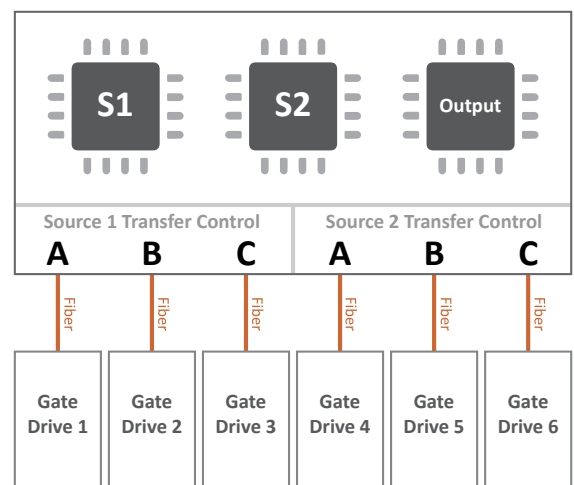
- Source 1
- Source 2
- STS Output.

LayerZero’s STS design incorporates twelve (12) power supplies (3 power sources x 4 failure groups.) The resultant control power topology utilizes all possible power paths to the four logical STS failure groups; and is the most comprehensive and redundant power supply system in existence.



eSTS SMR Triple Redundant Processors

- Independent processors are dedicated to monitoring and analyzing power quality for Source 1, Source 2, and the Output.
- If the processor for Source 1 malfunctions, the system can still initiate a transfer to Source 2, and vice versa.
- In the event of a complete failure of the main control system, the static transfer switch continues to conduct power from the current source to the load. While transfers between sources are temporarily unavailable, power delivery remains uninterrupted until the control system is restored.
- For added reliability, each phase of each source is managed by an independent gate drive circuit board, providing isolated phase control and enhanced system fault tolerance.

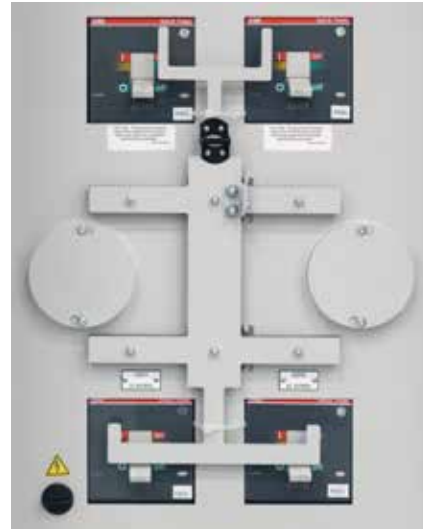


Reliability Features

Mechanical Bypass Interlock

To minimize the risk of operator error during bypass operations, LayerZero's eSTS features a comprehensive mechanical interlock system, designed with multiple layers of safety and procedural support:

1. **Interlocked breakers** prevent unsafe or out-of-sequence switching actions.
2. **Source verification mechanisms** ensure that a source cannot be bypassed unless the STS is actively sourcing from it.
3. **Protective safeguards** prevent the inadvertent cross-connection of power sources.
4. **Voice-guided bypass procedures** audibly walk the operator through each required step.
5. **Step-by-step pictorial and video guidance** is displayed on the touchscreen interface throughout the bypass process.



Mechanical Bypass Interlock "Goalpost" Design

Voice Guided Bypass

Operator error during manual bypass is a known risk in power distribution systems. To address this, LayerZero equips each eSTS with a voice-guided bypass interface that walks operators through each step of the procedure using synchronized audio and visual cues. Instructions are presented one step at a time, on dedicated screens, significantly reducing the likelihood of procedural mistakes and improving operator confidence during critical operations.



The Voice Guided Bypass Screen in the LZA GUI

No Fans. No Filters. No Fuses.

The Series 70 eSTS is designed with a natural convection cooling system, eliminating reliance on fans, fan sensors, dust filters, and fan fuses, all of which are common failure points in traditional systems.

This convection-based design improves thermal reliability and maximizes uptime. Heat sinks are strategically staggered between sources and phases, reducing the formation of thermal gradients during source switching and ensuring long-term durability with minimal maintenance.



Convection-Cooled Design in an eSTS, showing perforated vents on the cabinet bottom

Reliability Features

Epoxy-Coated Buswork and Maintenance-Free Joints

LayerZero enhances system safety and reliability through the use of epoxy-coated buswork, which eliminates the risk of bus-to-bus faults. All bus joints are permanently brazed, forming maintenance-free connections that reduce the need for ongoing service and minimize potential points of failure.

Silver Plating for High Performance

To ensure optimal electrical performance, all bus joints and terminals are silver-plated. Silver's exceptional conductivity and low electrical resistance make it the ideal material for clean, efficient, and reliable electrical contact, especially in mission-critical environments.



Silver-Plated, Epoxy Coated Customer Inputs for Source 1 and Source 2

Precision-Machined Hardware

LayerZero employs precision-machined cap screws and engineered disc springs in all bolted connections. This pairing delivers a reliable pressure-versus deflection profile, ensuring each connection maintains constant torque over the product's lifetime.

These fasteners have been extensively tested under wide temperature fluctuations to guarantee mechanical integrity. Once connections are tightened, they stay tight, preserving performance even in the most demanding conditions.



Machined Cap Screws and Engineered Disc Springs Utilized in LayerZero Power Systems Products

Fiber Optic Controls Enhance Reliability

The Series 70 eSTS utilizes fiber optic controls to eliminate electrical noise, reduce signal interference, and isolate critical control components from high-voltage circuits. Control signals are transmitted via optical fiber to gate drives located at the power circuit voltage, ensuring reliable, high-speed communication with superior electrical isolation.

Fiber-optic architecture also enables safe and secure service tool connectivity, improving maintenance procedures while maintaining operator safety.



Fiber Optic Connections (highlighted) in a Gate Drive

Safety - Ease of Maintenance

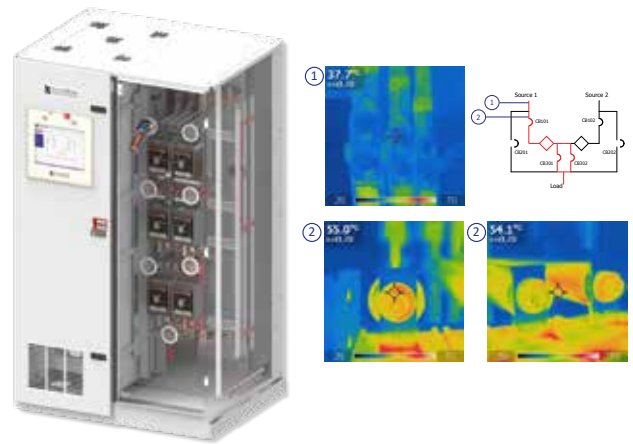
INSIGHT IR® Portholes - Thermal Scanning with Doors Closed

LayerZero’s INSIGHT IR® portholes are strategically positioned to allow safe, front-access thermal scanning of all bolted connections without opening the dead-front door. This design enables technicians to conduct routine thermal inspections without exposure to power circuit voltage, significantly enhancing safety during maintenance procedures.

Each IR window features a keyhole-access swivel design and opens upward to reveal a fine mesh screen, through which thermal cameras can easily “point and shoot” to capture temperature readings of internal components safely and efficiently.



INSIGHT IR® Porthole mounted on a polycarbonate window.



An IR Camera Scanning an INSIGHT IR Porthole for Source 1 Input (Door and side panel hidden for visibility)

INSIGHT IR® Cameras - Early Fault Detection in Real Time

INSIGHT IR® is an advanced, real-time thermal monitoring system designed to continuously measure the temperature of critical electrical connections. A network of fixed infrared cameras captures live thermal data, which is displayed as a dynamic temperature map on the eSTS interface.

The system supports phase-by-phase temperature monitoring, enabling operators to quickly identify and respond to abnormal heating patterns.

By detecting thermal anomalies early, INSIGHT IR® empowers preemptive maintenance, helping prevent unplanned outages, extend equipment life, and maintain optimal system performance and reliability.



INSIGHT IR® live images can be viewed on a local or remote display.



INSIGHT IR® Camera Housing



INSIGHT IR® Cameras are installed near bolted connections and critical components, and generates a hybrid heat map over a visible image

Safety

Sectionalization Maximizes Operator Safety

In early data center electrical systems, routine maintenance often required operators to work around energized components, increasing the risk of arc flash incidents, human error, and unplanned downtime. Common procedures, such as breaker operation or electronics inspection, frequently involve exposure to live equipment.

The LayerZero Series 70 eSTS, inspired by NFPA 70E safety standards, introduces a sectionalized architecture that physically separates the operator interface from both the power electronics and control systems. This design allows power to be safely bypassed around the section being serviced, minimizing operator exposure to energized parts and significantly enhancing maintenance safety.



eSTS with the Outer Doors Open, showing physical separation between the power electronics and control sections

View Status LEDs and Breaker Positions with Dead-Front Doors Closed

In many conventional systems, operators must open energized compartments to verify breaker positions or view system diagnostics, unnecessarily increasing exposure risk.

The Series 70 eSTS solves this challenge with a dead-front design that provides full visibility of status LEDs and distribution circuit breaker positions, all without opening live components.

This safety-forward approach improves operator protection, streamlines routine inspections, and enhances system reliability, supporting faster, safer decisions in mission-critical environments.



Polycarbonate Window on the Power Electronics Section, allowing visibility of status LEDs.

Ease of Maintenance/Connectivity Options

Front Only Access Saves Space

The Series 70 800 A 4-Pole eSTS is designed for complete front access, including installation, operation, diagnostics, and maintenance. Its hinged dead-front panels eliminate the need to remove side or rear covers, enabling safe, efficient servicing without exposing operators to unnecessary risk.

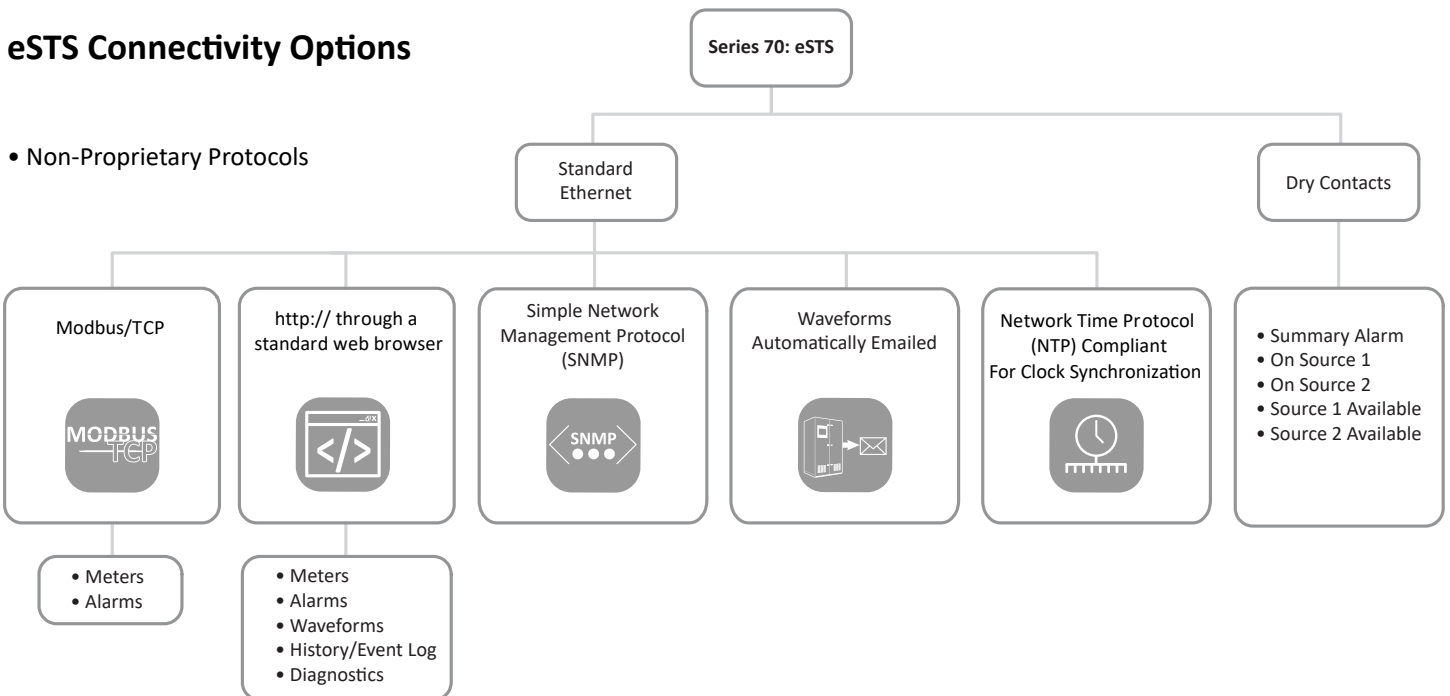
In contrast, unhinged covers can be bulky and awkward to handle. Errors during their removal or replacement have been known to cause mishaps that may compromise load reliability. By providing safe, non-invasive front-only access, the Series 70 promotes a more dependable maintenance process, directly contributing to improved critical load uptime.

Additionally, the Series 70 is equipped with dead-front hinged doors that include built-in alarms. These alarms alert operators whenever an outer door is opened, further reinforcing safety, security, and situational awareness during system access.



Front of the eSTS Static Transfer Switch

eSTS Connectivity Options

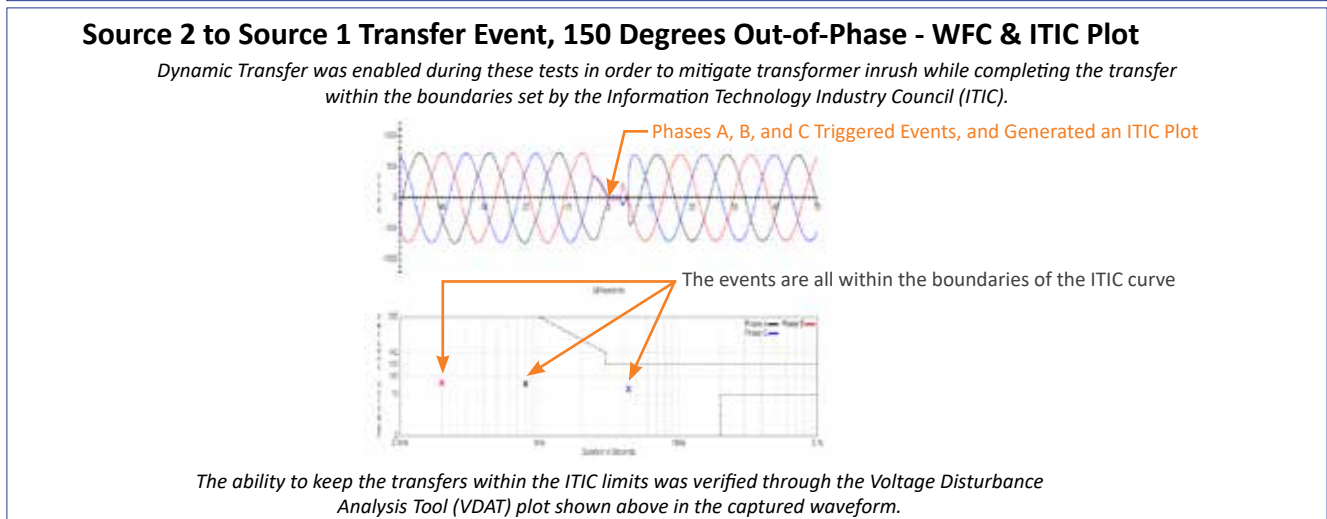
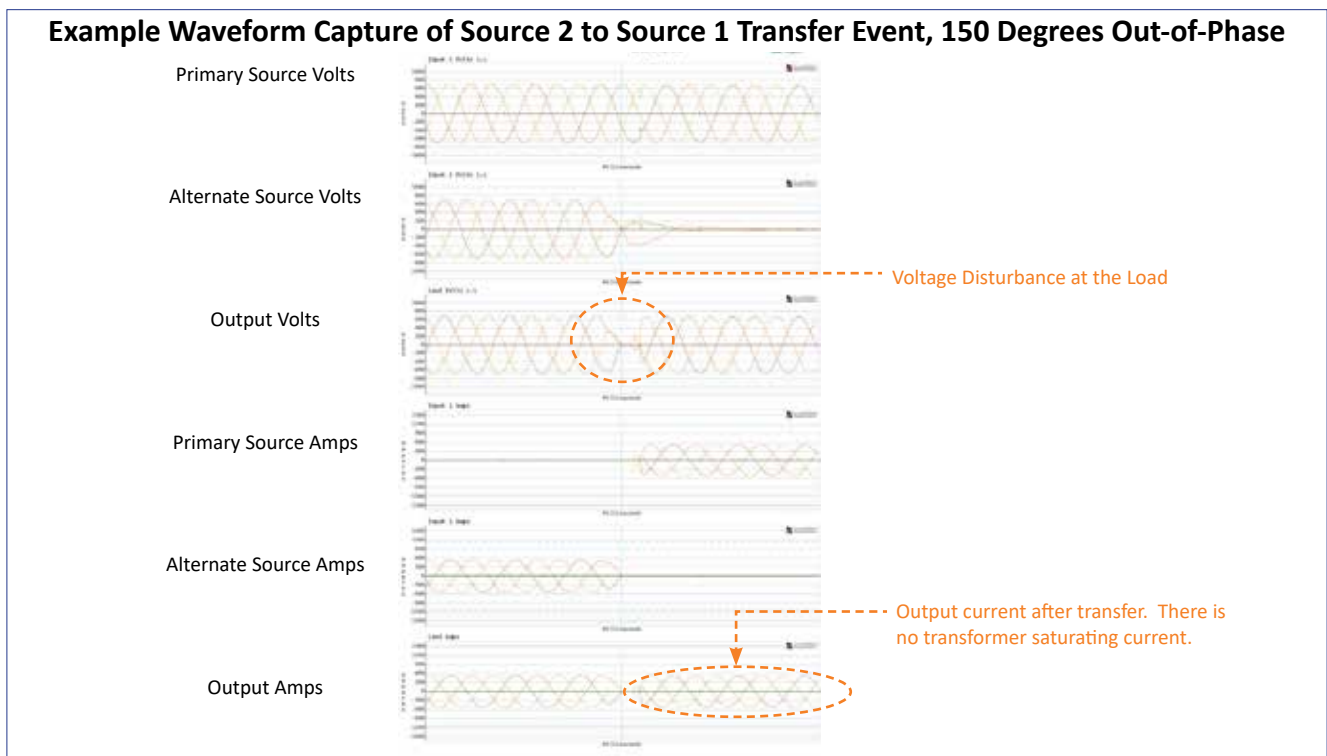


Generate Easy-To-Understand Power Quality Reports with ITIC Plotting

All LayerZero Power Systems products include built-in power quality analyzers that continuously sample power sources. When power quality falls outside the specified limits of a source, the eSTS automatically transfers the load to the alternate source, simultaneously capturing waveform data and generating ITIC curves of the event via the Voltage Disruption Analysis Tool (VDAT). This data can be accessed remotely through a secure web browser connection.

VDAT represents a significant advancement in power systems data interpretation. Leveraging innovative algorithms and techniques, VDAT converts complex waveform data into clear, actionable insights. It addresses a key industry challenge: while traditional waveform captures are often complex and difficult to interpret, VDAT produces intuitive plots based on Information Technology Industry Council (ITIC) standards, empowering professionals to quickly and confidently assess power events.

In the example below, the STS was connected to two sources that were 150 degrees out of phase. When the breaker on Source 2 was opened, the STS automatically transferred to the primary source. A delayed transfer caused transient events on Phases A, B, and C, which were captured and automatically plotted using ITIC curves. Unlike raw waveform captures, these ITIC plots are easy to read and require no expert analysis to understand.

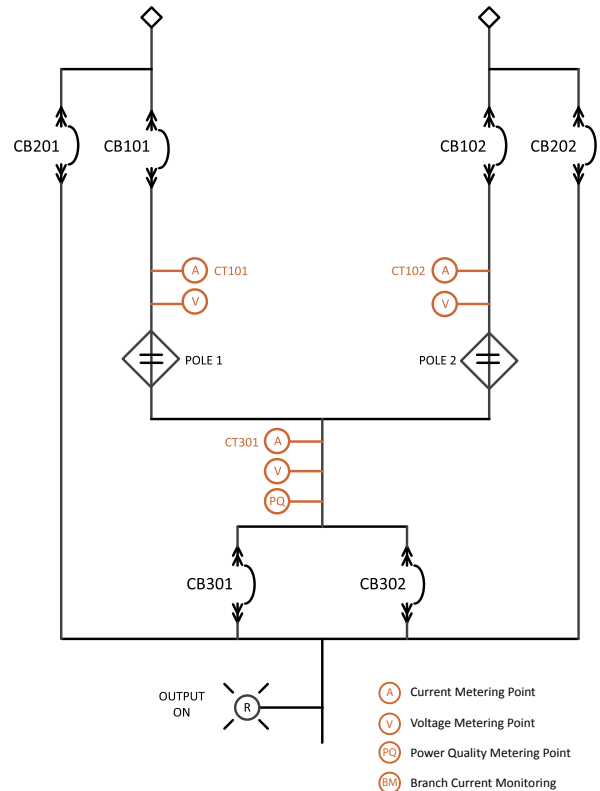


Features/Power Quality Monitoring

LayerZero Power Quality Monitoring (PQM)

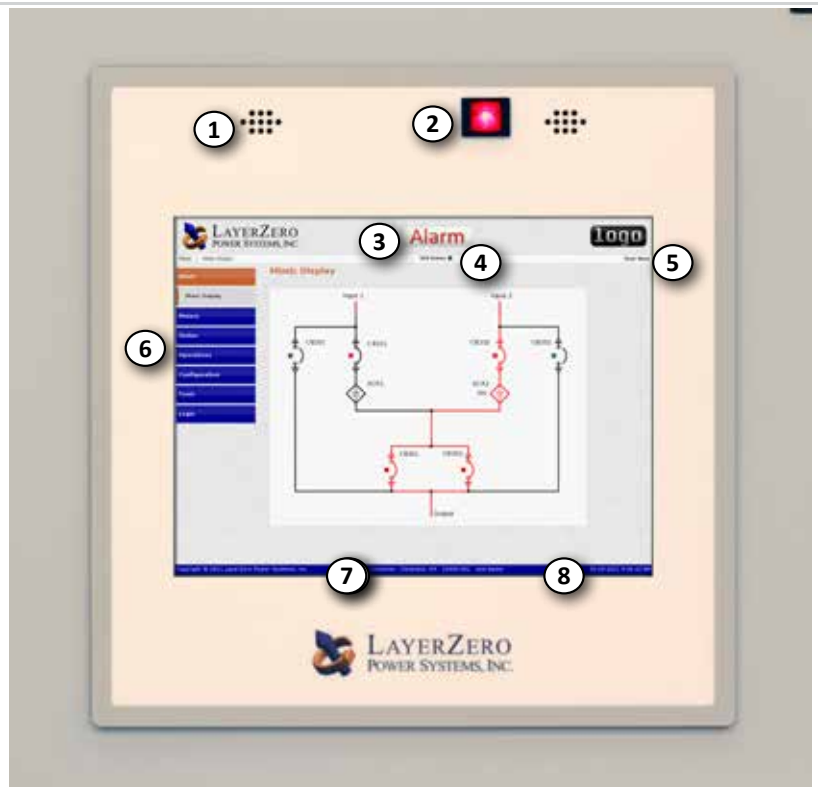
LayerZero PQM provides comprehensive visibility into all activity within your critical power distribution systems. This all-encompassing monitoring solution offers both local and remote communication options, delivering everything from basic alarms and status monitoring to advanced power quality analysis. With LayerZero PQM, you gain a wide range of tools designed to help maintain the highest levels of reliability.

Offering a vendor-neutral “bird’s eye” view of your entire critical power infrastructure, LayerZero PQM maximizes system uptime by alerting you to power quality issues, UPS output anomalies, and any active alarms. Beyond real-time monitoring, LayerZero PWM empowers users with the unique ability to review and retrace the exact sequence of historical events, an industry-leading feature that provides unmatched insight into mission-critical power performance.



15" Color Touch Screen (Standard)

1. Stereo Speakers for Guided Bypass Prompts
2. Output On Light (Remains Lit in Bypass Isolate Mode)
3. Alarm & Bypass Indicator
4. SCB Status Indicator
5. Logged In User
6. Navigation Menu
7. Customer & Project Information
8. Date & Time



Power Quality Monitoring

Static Switch Power Quality Monitoring

The Series 70 800 A 4-Pole eSTS comes equipped with LayerZero SSQM (Static Switch Quality Monitoring), a comprehensive monitoring system offering both local and remote communication options.

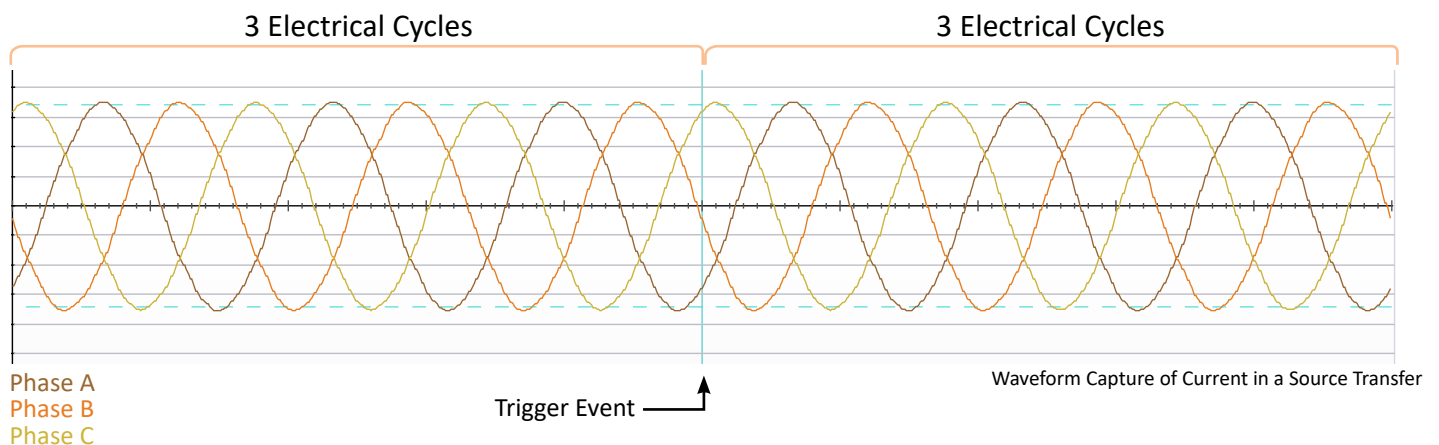
From basic monitoring and alarm reporting to advanced power quality analysis, LayerZero SSQM delivers a wide range of tools to help you stay informed, vigilant, and proactive, ensuring safe and stable operation of your critical power systems.



eSTS Touch Screen GUI showing Real Time Waveform Capture

LayerZero’s SSQM Provides Answers

LayerZero SSQM captures timestamped waveform snapshots before and after events, enabling facilities to methodically analyze and identify root causes. By actively monitoring power quality at the STS, PDU, and RPP levels, LayerZero empowers thorough post-event investigations, supporting continuous improvement and enhanced system reliability.



LayerZero SSQM Technical Specifications

LayerZero SSQM Parameters		Mains
Voltage Inputs and Output	Voltage (Volts)	✓
	Voltage Average of Phases (Volts)	✓
	Frequency (Hertz)	✓
	Total Harmonic Distortion (Percent VTHD)	✓
	Phase Rotation	✓
Current Inputs	Current (Amps)	✓
	Current Average of Phases (Amps)	✓
	Current Imbalance (Percent)	✓
	Real Power (kilowatts)	✓
	Apparent Power (kilovolt-amperes)	✓
	Reactive Power (kilovolt-amperes reactive)	✓
	Power Factor	✓
	Crest Factor	✓
	Crest Factor Average of Phases	✓
	Phase Difference Between Sources	✓
	Phase Difference Between Sources and Output	✓
Alarms	Summary Alarm	✓
	On Source (1/2/3)	✓
	Source Fail (1/2/3)	✓
	Source Preferred (1/2/3)	✓
	Source 1st Alternate (1/2/3)	✓
	Source Over/Under Voltage (1/2/3)	✓
	Source Over/Under Frequency (1/2/3)	✓
	Source Not Available (1/2/3)	✓
	Output Failure	✓
	Source Overcurrent (1/2/3)	✓
	Source Exceeds Manual Limit (1/2/3)	✓
	Source Exceeds Automatic Limit (1/2/3)	✓
	Bypassed to Source (1/2/3)	✓

Technical Specifications: 3-Pole Static Transfer Switch

Mechanical Characteristics *	
Current/Voltage/Number of Poles	800 A 240/415 V 4-Pole
Heat Dissipation	11,500 Btu/Hr
Weight	3050 lbs (1384kg)
Dimensions	88" x 84" x 48" (2237 mm x 2124 mm x 1206 mm)
Clearances	Front: 42" (1067mm) Rear: 4" (102mm) Sides: 0" Top: 18" (457mm)
Frame Construction	Welded Frame
Electrical Connections	Silver-Plated Solid Busbar
Color	Textured Powder Coat White (RAL 7035), Blue (RAL 5017), Black, Custom
Floor Stands	Optional
Seismic floor stands	Optional
Junction Boxes	Optional
Sectionalization	Engineered Composite Insulation, Dead Front Doors
Electrical Characteristics	
Number of Inputs	2, 3 (3 optional)
Number of Output CBs	1, 2
Frequency	50 Hz, 60 Hz
Poles	3-pole
Phases	3 Phase, 3 Wire, 4 Wire + Ground
Neutral Rating	100%, 150%, 200%
Transfer Time	Nominal 1/4- cycle for in-phase sources
Redundancy	Single Module Redundancy, Triple Modular Redundancy (Optional)
Circuit Breaker Type	Molded Case Switch (Standard), Electronic Trip (Optional)
Circuit Breaker Mounting Type	Plug-In up through 600 A; Draw-out 800 A, 1200 A
TVSS	Standard
Power Quality Monitoring	
Power Quality Monitoring Technology	LayerZero Power Quality Monitoring
Waveform Capture	Local Display, Remote Display via Web Browser, Waveforms Automatically Emailed
Voltmeter	Input sources and Output, for each phase
Ammeter	Input sources and Output, for each phase
Frequency Meter	Both Sources
Synchroscope	Phase Angle Meter Between Sources
Metering	Apparent Power, Real Power, Power Factor, Output Total Harmonic Distortion
Time Stamped Transfer Count	From First Day Use, From Last Reset
CB Status Indicator	Open/Closed/Tripped Circuit Breaker
Source Indicator	Preferred Source
Power Path Indicator	On Live Mimic

*Dimensional & weight data is only valid for 2-source.

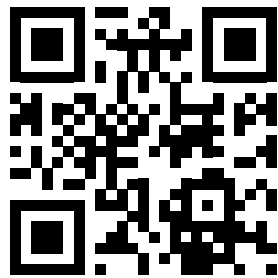
All product specifications are subject to change without notice.

Technical Specifications

Operational Characteristics	
Transfer Modes	Automatic; Manual (via Preferred Source Selection)
Inrush Mitigation Technology	Patented Dynamic Phase Compensation Algorithm (U.S. Patent 7,589,438 B2)
Cooling	Convection Cooling
Cable Access	Top/Bottom
Service Access	Front Only
Bypass Interlock Mechanism	Mechanical
Noise & Interference Isolation	Optical Fiber in Critical Control Paths
IR Scan Port Type	INSIGHT IR® Portholes
SCR Type	Puck
Display Type	15" Color Touch Screen
Display Resolution	1024x768
Bypass Assistance	Voice-Guided Bypass
Audio	Bezel-Mounted Stereo Speakers
Languages	English, French
Mimic Panel	Digital
Setpoints Control	Digital
Power Supplies	Redundant (4 Failure Groups. Triple Redundant Supplies. 12 Power Supplies Provided.)
Connectivity	
Meters	Local Display, Ethernet, Modbus/TCP, http via Web Browser (Non-Proprietary)
Alarms	Local Display, Ethernet, Modbus/TCP, http via Web Browser (Non-Proprietary)
Summary Alarm	Dry Contacts; Local Display; Modbus/TCP; Web Browser
Waveforms	Local Display, Ethernet, http via Web Browser (Non-Proprietary)
History/Event Log	Local Display, Ethernet, http via Web Browser (Non-Proprietary)
Diagnostics	Local Display, Ethernet, http via Web Browser (Non-Proprietary)
Time Synchronization	Network Time Protocol (NTP)
Standards Conformance	
CSA	ETL Listed to C22.22 No 107.
UL	ETL Listed to UL 1008S

All data tables above are for 3-pole only. Contact LayerZero for custom sizes and designs.

All product specifications are subject to change without notice.



Learn more at www.LayerZero.com



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