



Power Infrastructure Solutions

Maximize Uptime and Operational Efficiency
with Trystar Data Center Solutions

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Ensure Performance, Safety & Data Integrity

Maximize uptime and operational efficiency — even during unexpected power losses — with our customizable power solutions.

At Trystar, we deliver high-quality solutions with unmatched speed through consultative engineering, in-house design expertise, and a commitment to personalized service ensuring performance, safety, and data integrity for data centers.

 **Founded in 1991**, Trystar has built a comprehensive portfolio of power solutions designed to meet the most demanding needs, powered by a dedicated team of over 800 employees across 11 locations.

 **With over 30 years** of innovation and growth, we have a comprehensive portfolio of electrical power solutions to meet the most demanding needs.

 **Explore our portfolio of reliable solutions** that drive efficiency and reduce downtime in your data center operation. When you work with us, you can be confident that our power solutions will protect your data center consistently and securely. Discover how Trystar is powering possibilities for data centers.

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Custom Engineered Solutions Delivered at Lightning Speed



Trystar delivers custom-engineered solutions at lightning speed to meet your toughest challenges. Since our design and fabrication teams are in-house, we can produce essential parts and systems quickly to meet your deadlines.

Count on Trystar for speedy, reliable solutions that keep your operations running smoothly.



Power Monitoring: Reliable Power Starts with Precision Timing

In today's data centers, unavoidable power interruptions and outages occur, and when they do they can be costly in both money and reputation.

Precision timing is crucial in data centers, where minor state changes can occur rapidly. Trystar's monitoring solutions offer precision time stamped data to pinpoint the cause of power incidents quickly. They provide real-time event recording and a unified time baseline, facilitating precise diagnostics, root-cause analysis, and system optimization.

Sequence of Events Recorder

The Sequence of Events Recorder provides precise, 1 millisecond time-stamped event recording for 32 channels to enable root-cause analysis and advanced system diagnostics. They also provide time synchronization to downstream devices with support for several time protocols such as Precision Time Protocol (PTP) and IRIG-B.

SER 32e features 1 millisecond time-stamped events providing the ability to reconstruct an incident in the proper sequence, enabling analysis to quickly identify the root cause of the event and quickly determine a resolution.



Time Sync Hub

The Time Sync Hub (TSH-100 / TSH-200) supplies accurate time synchronization for power system devices such as Sequence of Events Recorders (SERs), power meters, protective relays, transfer switches, UPSs, PLCs and other devices used across your power distribution system. This provides higher quality data by ensuring timestamps are aligned to a common time source across all devices throughout the facility. System-wide clock synchronization is essential for meaningful data analysis.

TSH-100 / TSH-200 ensures a "single version of the truth" with high-quality common time baseline and precise time-stamped data to improve efficiency and reduce downtime.





Reliable Products, Responsive Service, and Engineering Expertise

Trystar products last considerably longer and perform noticeably better, even in the most extreme environments. And we can back that up with third-party laboratory testing.

Don't compromise on your data center's performance. Turn to Trystar for reliable products, responsive service, and innovative engineering to maximize uptime and operational efficiency in your data center.



Docking Stations:

Protect Your Data Center & Maximize Safety During a Power Outage

Uninterrupted power is critical to maintaining operational efficiency and preventing costly downtime in data centers.

Trystar Docking Stations are an NEC-compliant solution that streamlines backup power management, facilitates seamless load bank testing, and ensures rapid emergency power deployment.

Docking Stations: Provide a dedicated, secure connection point for backup generators and load banks, enabling fast, reliable power transitions while reducing downtime and labor costs.

Automatic Transfer Switches: Ensure seamless, automated power switching between utility and backup sources, eliminating the need for manual intervention during outages.

Customizable Solutions: Seamlessly integrate into your existing infrastructure with built-to-order solutions in a wide range of voltage and amperage selections, NEMA rated enclosure choices, and customizable colors and UV graphics in wall-mount, flush-mount, and pad-mount configurations.

Proudly made in the USA: Designed, engineered and manufactured in the USA.

Generator Docking Station (Single-Purpose)

Trystar Generator Docking Stations provide a secure, dedicated connection for temporary backup generators, ensuring rapid emergency power deployment without the need for an electrician. Designed for critical facilities, they enable fast, safe power restoration during outages or generator maintenance, minimizing downtime and operational risks. Trystar's advanced design ensures seamless integration for maximum power resiliency.

Ensures rapid, electrician-free connection of temporary generators, minimizing downtime and safeguarding critical operations.



Load Bank Docking Station (Single-Purpose)

Trystar Load Bank Docking Stations provide a secure, dedicated connection for controlled generator load testing, ensuring compliance with industry regulations and verifying backup power system reliability. Designed for seamless integration, they enable performance verification, diagnostics, and maintenance of critical power equipment by simulating real-world power demands. They also ensure safety with Integrated safety interlocks and grounding provisions.

Streamlines generator testing, ensuring regulatory compliance and optimal backup power performance without disrupting operations.



Generator and Load Bank Docking Station (Dual-Purpose)

The Trystar Dual-Purpose Docking Station seamlessly integrates both generator and load bank connections into a single unit, reducing downtime and labor costs during generator maintenance. With an industry-standard Kirk Key mechanism ensuring safe and secure power transitions, this fully NEC-compliant docking station enhances operational efficiency, eliminates the need for separate docking stations, and improves equipment longevity by reducing mechanical wear.

Combines generator backup and load testing in one secure solution, simplifying power management while ensuring continuous uptime.



Docking Station with Integrated Automatic Transfer Switch (ATS)

Trystar Automatic Transfer Switch (ATS) Docking Stations are an all-in-one solution that ensures seamless, automatic power transfer between utility and backup sources during outages, maximizing uptime and protecting against financial losses. Built to handle high-load applications, this system allows data centers to remain operational without manual intervention, instantly switching to emergency power and back to utility when stability is restored.

Automates backup power activation, ensuring seamless transitions and uninterrupted operations for critical data center loads.

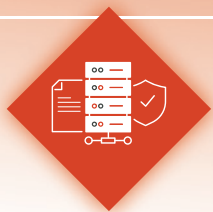




Third-party Tested, Impeccable Product Quality

At Trystar, we design and manufacture our products to exceed industry standards, providing your data center with superior performance and reliability.

While the perfect product may exist on a shelf, we recognize that no two customers are alike. If you don't see what you need, we'll engineer a solution that matches your power management challenges.



Lighting Inverters:

Maximizing High Peak Overload
Capability Performance

Lighting inverters provide backup power to emergency lights and exit signs for a minimum of 90 minutes during power failures, ensuring evacuation and compliance with safety regulations.

Trystar's emergency lighting inverters are designed for superior performance, featuring industry-leading peak overload capability, and long-term reliability.

With options ranging from compact three-phase cabinets to robust single-phase models capable of supporting high-demand lighting applications, Trystar provides tailored solutions that seamlessly integrate with modern life safety systems. Their cutting-edge designs not only enhance operational efficiency but also minimize maintenance needs, making them an ideal choice for critical environments where uninterrupted lighting is essential.

Flexible Configurations: Supports a wide range of lighting loads with customizable options.

Remote Monitoring: Easy integration with Building Management Systems over common Ethernet and Serial communication protocols and status contacts.

Maintenance-Friendly: All front-access designs for routine inspections and minimal maintenance downtime.

Proudly Made in the USA: Designed, engineered and manufactured in the USA.

EON Model EL3 (10kW - 55kW) Three Phase

The high-performance EON Model EL3 three-phase emergency lighting inverter uses true online double conversion technology. This ensures a continuous supply of conditioned, spike-free power to maintain operational integrity during both normal conditions and power disruptions. With its ability to seamlessly accommodate high LED inrush currents, the EON Model EL3 reliably supports modern lighting systems. Compact footprint maximizes space efficiency for data centers where space is at a premium. Seismic-rated options are available for enhanced durability in earthquake-prone regions.

The EON EL3 model uses true online double conversion for spike-free power to maintain system integrity.



TrueLITE Model ELS (58.5 kW - 112.5 kW) Three Phase

The TrueLITE Model ELS three-phase emergency lighting inverter delivers unmatched reliability, energy efficiency, and scalability. Four field-selectable operating modes—including Smart Active Mode for up to 98.5% efficiency—optimize energy usage. 1200% peak overload capability seamlessly handles inrush currents for uninterrupted performance while maintaining a high input power factor to reduce distortion and surge currents. Seismic-rated options are available for enhanced durability in earthquake-prone regions.

TrueLITE Model ELS model features four field-selectable modes of operation for robust, operating efficiency.



FastLITE Model FST (525W - 2.2kW)

The FastLITE Model FST lighting inverter delivers superior reliability and efficiency. With fast-transfer topology, up to 98.8% efficiency is achieved with a 2ms or better transfer time. 1500% peak overload capability seamlessly handles inrush currents for uninterrupted performance and advanced diagnostic testing modes for superior reliability.

FastLITE Model FST model delivers reliable performance, high efficiency, and advanced monitoring in a small footprint.



UltraLITE Model ELU (1.5kW - 14kW) Single-Phase

The compact and efficient UltraLITE Model ELU single-phase emergency lighting inverter provides stable and spike-free power for life safety systems. With precision voltage regulation, it protects ballasts, drivers, and lamps from power fluctuations, ensuring prolonged operational reliability. The model also supports dual voltage configurations for flexible system integration.

The UltraLITE Model ELU is a single-phase emergency lighting inverter that provides stable and spike-free power for life safety systems.





Relationship-Based Customer Service You Can Rely On

Some things can't be left to customer portals or status notifications. Whether you need order updates or urgent support during a crisis, our dedicated team is here for you every step of the way.

Contact a support specialist today to receive help you need. We are here to support you every step of the way.

- Contact Us:
- <https://www.trystar.com/contact/>
 - Phone: 507-333-3990, 2



Load Banks:

Ensure Standby System Performance & Reliability

Regular testing with Trystar's load banks ensures your data center's emergency power systems perform reliably during outages. This validation helps prevent future issues and maintains operational readiness.

Trystar has been manufacturing high-capacity resistive load banks for nearly 20 years, offering the reliable performance and versatile configurations to match your needs, including rack-mounted, portable, and permanent load banks designed to work with natural gas or diesel generators.

- Advanced Digital Controls:** Enables precise load adjustments, remote monitoring, and synchronized group control.
- Enhanced Safety Features:** Includes Intelligent Safety Circuits, branch circuit fusing, and emergency stop features.
- Optimized Power Testing:** Supports a wide range of power capabilities for diverse data center applications.
- Efficient Setup and Operation:** Quick and easy installation minimizes downtime and testing overhead.

Portable Load Banks

SL Series Server Rack Heaters

SL Series Server Rack Heaters provide precise heat generation for data center commissioning, ensuring optimal HVAC validation and infrastructure reliability. These lightweight, portable heaters are designed for hot aisle/cold aisle testing, facilitating energy efficiency and reducing operational costs.

LP Series Portable Indoor Load Banks

LP Series Portable Indoor Load Banks offer exceptional flexibility, with advanced digital controls for remote and synchronized testing of up to 33 Load Banks in a single string. Built for testing, commissioning and scheduled maintenance.

SL Series Server Rack Heaters



LP Series Portable Indoor Load Banks



Stationary Load Banks

LS Series Outdoor Stationary Load Banks

Built for all weather conditions, LS Series Outdoor Stationary Load Banks feature advanced digital controls to streamline large-scale testing processes. These reliable stationary load banks ensure seamless integration into standby system testing.

Medium Voltage Load Banks

With power ratings up to 3000 kW, Medium Voltage Load Banks are designed for large-scale generator and turbine testing. These Skid-mounted units provide high-capacity load testing with integrated step-down transformers and remote monitoring capabilities.

LS Series Outdoor Stationary Load Banks



Medium Voltage Load Banks



Trailer Load Banks

Trailer Ready and Trailer Mounted Load Banks provide a rugged, mobile solution for power system testing, reducing labor costs and testing time with efficient setup and operation. Built with heavy-duty galvanized steel construction, optional DOT-compliant trailers, they offer unparalleled flexibility in high-capacity testing applications and motorized cable reels with a lockable enclosure.

Trailer Load Banks



Duct and Roof Top Mounted Load Banks

LD Series Radiator Duct Mounted Load Banks

Designed for mission-critical generator testing, LD Series Radiator Duct Mounted Load Banks prevent wet-stacking, reduce long-term maintenance costs, and extend equipment lifespan. Their integration into Genset Enclosures that are installed at Data Centers provides continuous, efficient testing that minimizes unexpected failures and optimizes overall power system readiness.

LD Series Rooftop Duct Mounted Load Banks

Specifically designed for rooftop installations on sound-attenuated GenSet enclosures with vertical exhaust configurations, LD Series Rooftop Duct Mounted Load Banks optimize generator performance while ensuring emissions compliance, helping data centers maintain regulatory standards. By providing consistent and reliable load testing, they prevent issues such as wet-stacking in diesel generators, enhance long-term system efficiency, and support uninterrupted power reliability. Load Banks provide seamless integration into existing infrastructure for improved operational resilience.

LD Series Radiator Duct Mounted Load Banks





Customer Insights Lead to Innovations That Improve Efficiency

We are committed to driving innovation that eliminates obstacles and enhances your operations.



Power Cables: Connect to Exceptional Durability & Flexibility

At Trystar, we know cable—it's where we started in 1991. With decades of experience, we manufacture high-performance portable power cables designed to meet the demanding needs of data centers. Our cables feature an inner insulation layer in a contrasting color to alert you to cuts, nicks, and excessive wear on the outer insulation jacket while ensuring exceptional performance, durability, and flexibility.

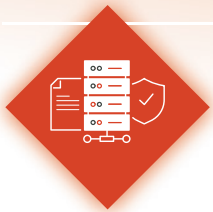


Innovative, Sustainable Power Generation Solutions

Like you, we are continually exploring and evaluating innovative power solutions to drive progress and performance.

The GridPak product line is Trystar's solution for self-sustaining commercial power generation. This product portfolio is an exciting alternative to portable commercial diesel- or gasoline-powered generators, allowing operators to provide as much as 720kWh of carbon-free power.

At Trystar, we're always innovating. Be sure to visit our factory complex in Faribault, MN to see how a combination of solar, wind, and battery storage technologies provide prime, renewable power to the facility. While you're there, ask to see our other exciting innovations designed to improve uptime and operational efficiency.



Modular Buildings for Greater Power Distribution and Resiliency:

Innovative Systems for the most demanding data center operations

Whether utilizing energy storage systems or generation, collector and inverter substation components, Trystar's Power Modular Buildings provide faster construction and deployment coupled with the customization to meet your needs.

Our offering includes Trystar's UL891/UL1558 Low Voltage Switchboards, UPS, rack mounted load banks, transformers, batteries, HVAC, fire/gas detection, fire suppression, control panels, lighting and emergency lighting, and security system. Sequence of Event Recording is also available and can connect into your sites Ethernet connection for millisecond time-stamping.



We Are Here to Help

Our team is here to support you and solve your power challenges.

Connect with our responsive experts today to learn about our products and solutions customized for your data center.

Start a conversation:



Call **507-333-3990**



Visit **www.TRYSTAR.com/contact**

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification during further development of the products. The requested performance features are binding only when they are expressly agreed upon in a concluded contract.

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