CATALOG

EAGLE EYE POWER SOLUTIONS

Increasing Reliability. Decreasing Costs. Meeting Compliance.

Manufacturer of

Critical Power Solutions, Services & Education

Who We Are

Headquartered in Mequon, Wisconsin, Eagle Eye Power Solutions is a manufacturer of critical power solutions, services, and education for utility, telecom, data center, and other critical power applications. With a growing portfolio of engineered solutions designed to enhance long-term performance and safety, Eagle Eye partners with customers to support mission-critical power demands worldwide – increasing reliability, decreasing costs, and meeting compliance.

Core Values

Leading Through **Education**

With A Commitment To **Safety**

We Empower Our **Employees**

To Place **Customers** First

And Uplift Our **Community**

"A company that strives to live by its core values every day, as CEO, my vocation is to continually inspire our organization to Lead Through Education, with a Commitment to Safety, to Empower Our Employees, so we can Empower Our Customers, and together, we Empower Our Communities."

— Ryan Sberna, Founder & CEO

The Ten Business Segments of Eagle Eye

Education | Battery Monitoring | Battery Charging | Gas & Ventilation | Load Banks | Portable Testing | Integrated Solutions | Services | EEPower Distribution.com | Stationary Power

1 Education

- Eagle Eye University offers Regional, Onsite, Online, & Custom Training
- Industry-expert-led training
- IEEE accredited courses

2 Battery Monitoring

- Battery Monitoring Systems (Including for NERC)
- Electrolyte Level Monitoring
- Voltage & Ground Fault Monitoring
- Temperature / Thermal Runaway Monitoring

3 Battery Charging

- BC-2500
- Doghouse
- BC-2200

4 Gas & Ventilation

- Hydrogen Monitoring
- Methane Monitoring
- Propane Monitoring
- Smoke Monitoring
- Silent Intrusion Monitoring
- Ventilation Systems

5 Load Banks

DC Load Banks

- Smart Constant Current
- Non-Constant Current

AC Load Banks

- Resistive Single Phase
- Resistive Three Phase
- Resistive-Reactive
- Rack Mount

Welding Load Banks

- Recommended replacement for Miller Electric 350A and 750 load banks

6 Portable Testing

- Battery Testing Kits
- Digital Hydrometers
- Ground Fault Locators
- Clamp-On Ground Resistance Tester
- Digital Ground Resistance Tester Kit

7 Integrated Solutions

- Custom engineered integrated battery systems

8 Services

- Turn key installation and commissioning of Battery Systems
- Preventative Maintenance Programs
- Battery Monitoring Services
- Capacity/Discharge Testing
- Site Health Checkup
- IEEE & NERC Compliance
- Battery Recycling & Disposal

9 EEPowerDistribution.com

- E-commerce portal offers a fast & convenient way to purchase

10 Stationary Power

- Batteries (VLA, VRLA, NiCad, LiFePO4 & Salt Metal Chloride)
- Inverter Systems
- Enclosures
- Battery Racking
- Spill Containment Systems
- Battery Accessories

Eagle Eye University

Increasing Critical Power Reliability with Hands-On Education

Eagle Eye University was created to meet the increasing demand for education and training in the battery industry. As an industry leader, EEU offers courses online (on-demand or live virtual), in-person at Eagle Eye's Mequon, WI HQ location, or on-site at your location!

Ask about our live two-day training sessions coming to a region near you!

Get firsthand knowledge from EEU's proven battery experts:
- 40+ years industry experience
- IEEE PES Energy Storage and Stationary Battery Committee (ESSB)
- Contributing authors to numerous trade publications and manuals

Tom Carpenter
- Lead Instructor - Utility Training
- Battcon Hall-of-Fame Inductee 2024

Course Curriculum Includes Topics Such As:

- **Introduction to Batteries & Battery Maintenance**
- **Battery 101 & Battery 102**
- **NERC PRC-005-6 Battery Operation & Maintenance Compliance**
- **Battery Maintenance for Telecom and Data Centers**
- **Custom Curriculum Tailored to Your Training Needs!**

Online Training

Get online, on-demand access to IEEE certified courses that help you fit training into your busy schedule.

In-Person Training

Experience hands-on training in our state-of-the-art battery lab at our Eagle Eye Power Solutions headquarters in WI.

On-Site Training

Looking for group training at your facility? Our expert instructors will come to you for battery courses taught on-site at your location.

Regional Training

Offering in-depth training for engineers, technicians, and utility personnel who manage
DC power systems and stationary batteries.
Covering essential topics including:

- NERC PRC-005 compliance
- IEEE battery testing standards
- Battery maintenance best practices, and safety procedures

Led by industry experts, each event provides real-world instruction and practical takeaways that empower attendees to enhance system reliability and meet regulatory requirements with confidence.

IEEE CREDENTIALING PROGRAM

Eagle Eye University is an approved provider of IEEE CEU/PDH certificates.

Earn Continuing Education Credits (CEUs) or Professional Development Hours (PDHs) with EEU!

Visit eepowersolutions.com/EEU for a full list of courses and offerings

QUICK LINK:
EAGLE EYE UNIVERSITY

Featured Project

Delivering Complete DC Product and Training Solution to Gulf Power

Challenge:
Gulf Power (acquired by Florida Power & Light) needed load testing and battery testing equipment but also needed technical training for their staff on the use of this equipment. This presented a logistical challenge in getting both the product and product training delivered to the customer.

Solution:
Eagle Eye Power Solutions created a customized hybrid solution for Gulf Power. The battery load bank and testing equipment were delivered to Eagle Eye headquarters, just outside Milwaukee, to enable the Gulf Power team to attend a 2-day custom training session on the fundamentals, use and application of the equipment purchased.

Implementation:
Eagle Eye University delivered a custom 2-day on-site training for Gulf Power, blending Battery 101, DC Power Systems 101, and Battery Discharge Testing. A seasoned instructor led classroom sessions, an engineering technician provided hands-on lab training and discharge testing demos, and participants reviewed data before a final Q&A to ensure mastery.

Results:
Through Eagle Eye University, Gulf Power gained the practical training and knowledge necessary to perform their jobs with confidence. They will continue to partner with Eagle Eye Power Solutions to receive essential battery training for their employees moving forward.

EAGLE EYE SERVICES LLC

Eagle Eye Services

Battery System Preventative Maintenance

Your Partner in Power: DC Power Services That Deliver

Eagle Eye Power Solutions brings years of hands-on experience to you. In the field, our knowledgeable technicians evaluate every aspect of a battery system to provide complete DC power solutions that will improve performance now and well into the future.

Eagle Eye's Service team follows IEEE best practices to help our customers increase reliability, decrease costs and meet compliance, properly monitoring and maintaining each DC battery system.

Battery Monitoring Services

Eagle Eye Services delivers hands-on expertise when installing, starting up and commissioning, and maintaining Eagle Eye Battery Monitoring Systems.

While the right BMS can minimize maintenance over time, regularly scheduled physical inspections are still the best way to ensure long-term, optimal performance.

Battery System Preventative Maintenance

Want to get the most out of your critical backup battery system? The best way to optimize performance, protect your assets, and ensure the safety of your employees and customers is to schedule periodic manual inspections of your battery systems.

Eagle Eye Services follows all IEEE, NERC, and manufacturer recommendations to ensure the product is properly maintained for optimal performance and compliance.

IEEE Compliant Capacity/Discharge Testing

Under normal aging conditions, batteries lose capacity over their anticipated lifespan. A discharge test is the only way to accurately measure the true remaining capacity of the battery with respect to its original installed capacity.

Featured Project

Reliable Battery Change-out Services Across 100+ Substations

Customer:
A Fortune 500 company, **Dominion Energy** is one of the largest utilities in the country, providing electrical power to millions of customers in Virginia and the Carolinas. Founded in 1983, Dominion is headquartered in Richmond, VA.

Challenge:
With dozens of remote substations at the Energy Transmission level, performing large scale battery system change-outs is a major undertaking. That's why Dominion needed a reliable service partner it could trust to manage and execute such a project.

Options:
Disappointed with its current service partner, Dominion turned to Eagle Eye Power Solutions, an existing product vendor with a proven track record of DC power expertise. Headquartered in Wisconsin, Eagle Eye would look to a local service partner based in Virginia to execute the change-outs, battery maintenance and warehousing, keeping travel costs down and improved response time.

Solution:
Facilitating a local presence for service technicians and a nearby warehouse for battery storage and maintenance (proper charging, climate control, etc.), Eagle Eye worked closely with Dominion's Substation Management team to devise a fleet-wide deployment of services.

Implementation:
Executing the project management of this weekly deployment that would extend over the course of 36 months, Eagle Eye provided the oversight and expertise to get the job off the ground and running. Consistent communication and periodic visits with the customer and service team would ensure quality control, optimal performance, and that customer expectations were consistently met.

Results:
Having successfully managed the change-out deployment over the first 12 months of the contract, Eagle Eye is being considered as the vendor of choice for a similar rollout on the Telecommunication and Generation sides of Dominion.

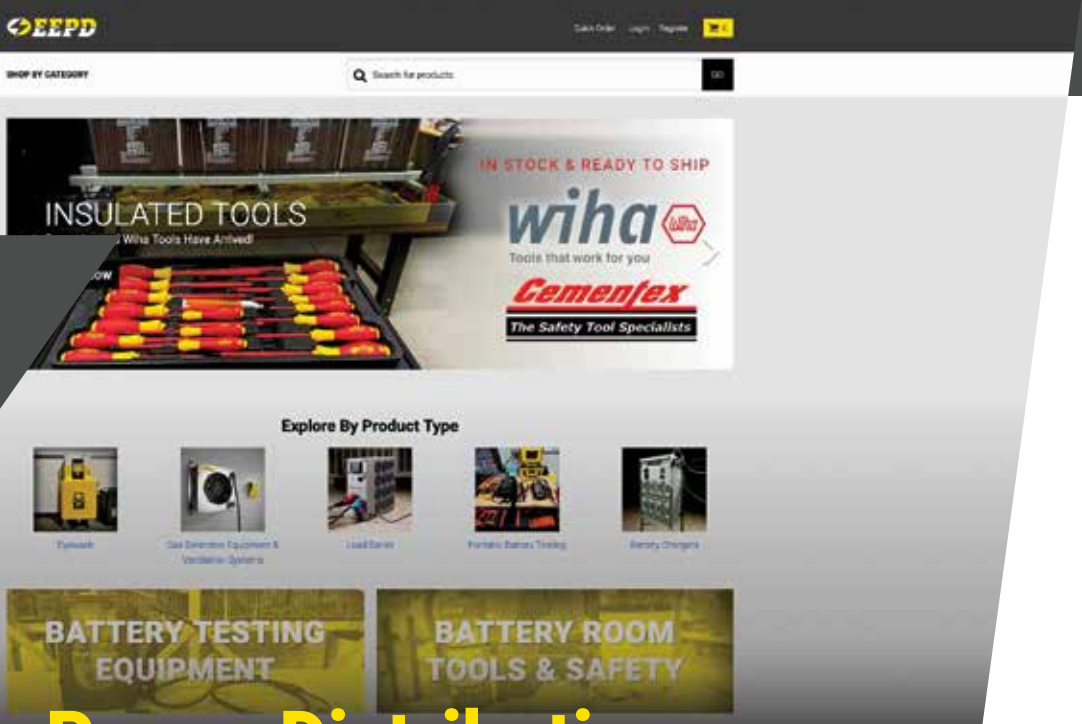
In addition, Dominion has also been looking to standardize on more Eagle Eye products, such as the BC-2500 chargers (officially spec'd in), Hydrogen Gas Detectors, and DC Load Banks.

SCHEDULE A FREE MAINTENANCE ASSESSMENT

We'll inspect your battery room to ensure everything is operating safely, efficiently and meets standards.

– Allan, *Sr. Director of Service Operations*

QUICK LINK:
EAGLE EYE SERVICES



Eagle Eye Power Distribution

Your Trusted E-Commerce Source for Critical DC Power & Battery Safety Solutions

Eagle Eye Power Distribution (EEPD), a division of Eagle Eye Power Solutions, is a leading single-source provider of critical DC power products, specializing in battery testing equipment and battery room safety solutions. Offering industry-leading brands with proven performance, EEPD's product lineup includes load banks, portable battery testers, battery chargers, eyewash stations, gas detection and ventilation systems, and insulated tools. Committed to helping customers increase reliability, decrease costs, and meet compliance standards, EEPD ensures in-stock availability, same-day shipping on most orders, and free shipping to deliver exactly what you need, when you need it.

Industry-Leading Battery Testers

Reliable, precision tools and complete kits – shop and ship fast directly from **eepowerdistribution.com**.

Same-Day & On-Time Shipping

Most purchases ship fast the same day – order now at **eepowerdistribution.com** for reliable, timely delivery.

Eagle Eye Power Distribution – a fast & convenient way to order.
Visit eepowerdistribution.com today!

EEPD Categories

Battery Room Safety

Battery Testing Equipment

Ground Fault Detector and Locator

Battery Monitoring Systems

Insulated Battery Tools

Battery Spill Containment

Gas Detection & Ventilation

Eyewash Stations

Battery Accessories

Battery Chargers

Portable Testing

Load Banks

A division of Eagle Eye Power Solutions, Eagle Eye Power Distribution (EEPD) is a leading single-source provider of Battery Testing Equipment and Battery Room Safety Products. We offer industry leading brands with a proven track record of delivering best-in-class performance across a wide variety of power-related applications.

In stock and ready to ship, we are committed to offering exactly what you need when you need it!

QUICK LINK:
EEPD
eepowerdistribution.com

EAGLE EYE
POWER SOLUTIONS

Battery Monitoring

Advanced Battery Monitoring Systems for Unmatched Reliability

Maximize uptime, minimize risk, and extend the life of your critical batteries with Eagle Eye Power Solutions' cutting-edge Battery Monitoring Systems. Trusted by utilities, telecom operators, and industrial facilities worldwide, our solutions monitor and trend the key battery parameters recommended by IEEE and are aligned with NERC compliance expectations—helping ensure your battery systems deliver when it matters most.

VIGILANT® Battery Monitoring System

The **VIGILANT®** is a state-of-the-art battery monitoring system, Eagle Eye Power Solutions' VIGILANT® BMS delivers:

- NERC PRC-005-6 Compliance
- Battery Cell trending data to determine when further testing is needed
- Remote connectivity for analysis across varied battery system locations

With a built in web-server, the VIGILANT is equipped to monitor and store all required battery parameters for the life of the battery.

PowerEye Battery Monitoring System

Whether looking to monitor your UPS batteries or for an easy-to-install and cost-effective battery monitoring solution for any critical power application, the **PowerEye** BMS is ideal for customers looking to:

- Extend the life of your battery system
- Cut maintenance and replacement costs with proactive preventive maintenance
- Achieve remote access to manage your business anytime, anywhere
- Plan battery procurement to avoid emergency situations
- Verify warranty status with recorded data and reporting

Featured Project

iPS Deploys PowerEye BMS for 480V Backup Banks

Customer:
A critical power solutions provider in Trinidad and Tobago, **Innovative Power Systems Ltd.** working as a consultant for a petrochemical client.

Challenge:
The end user requested a battery monitoring system to provide individual cell monitoring for their 480V backup battery banks.

Options:
Located in Trinidad and Tobago, the customer was reliant on overseas options that could be researched and vetted online.

Solution:
After performing an online search and reaching out to Eagle Eye for more information, a series of discussions led to Innovative Power Systems selecting Eagle Eye's PowerEye BMS as the best solution to pursue for its client. This was in large part due to the PowerEye's ability to monitor two battery banks remotely and simultaneously from a single computer. With each battery cell equipped with its own sensor to continuously track its health and provide real-time environmental data, this would provide the accurate reporting necessary to adequately monitor the end user's critical backup battery banks.

Implementation:
The installation was carried out during a scheduled downtime during a plant turnaround, as Innovative Power's service team successfully installed 480 sensors/modules along with the necessary accessories. Throughout the project, Eagle Eye provided exceptional technical support. During final execution, even when a device issue was encountered, Eagle Eye promptly engaged its system engineers to provide remote troubleshooting and technical support to resolve the problem. Eagle Eye's assistance during these design and review stages proved to be invaluable, allowing for detailed discussions with the customer and clear explanations of the PowerEye's operation.

Results:
The end user now has a successful standalone battery monitoring system capable of providing both high-level graphical overviews of its battery health and detailed performance reports for each cell over time.

"Trying to troubleshoot a battery monitoring installation from a remote location could have been disastrous. Fortunately, Eagle Eye's technical support team did a tremendous job with its knowledge and responsiveness so that we were able to overcome some minor hurdles to conduct a successful installation"

Carlos Mencia
GM, Innovative Power Solutions

EAGLE EYE
POWER SOLUTIONS

Battery Chargers

MADE IN U. S. A.

Battery Chargers for Reliable Power & Long-Lasting Performance

Maximize reliability and uptime for critical DC power applications with Eagle Eye Power Solutions full line of stationary battery chargers. These commercial battery chargers are based on a high-efficiency, modular, and redundant platform design. They also utilize high availability with uptime architecture and come in 480W or 400W with hot-swappable Intelligent Power Modules (iPMs).

BC-2500 Industrial Battery Charger

The **BC-2500** is a resilient industrial battery charger specifically designed to eliminate single points of failure and never go offline.

With its wide range of benefits, it's easy to see exactly why it's the only stationary battery charger you'll ever need. For example:

- Built-in redundancy with multiple iPMs in a single chassis allows the charger to take a hit and distribute the load accordingly
- Rugged yet portable construction means it uses automotive grade parts while remaining lightweight enough to easily maneuver as needed
- The charger's modular design allows for iPMs to be easily replaced while remaining online (hot swappable with just two screws)

Doghouse BC-2500 Industrial Battery Charger

Built for tough sites and tight spaces, the **Doghouse BC-2500** is a compact, always-on DC charger that shrugs off single points of failure. Multiple iPMs share the load; if one goes down, the others keep charging—no downtime.

Why Doghouse BC-2500 for Substations & Switchgear

- Always-on architecture — Parallel iPMs distribute load and provide built-in N+1/N+2 redundancy.
- Fast field service — Hot-swappable iPMs (two screws) let you replace a module without taking the charger offline.
- Rugged, portable build — Industrial enclosure and durable components; lightweight enough to position where you need it.

Featured Project

Achieving NERC TPL-001-5 Compliance and More with a Single-Source Partner in Eagle Eye Power Solutions

Customer:
Tacoma Power has been a public owned utility in Washington since 1893. It operates as follows:

- 180 square miles of service area
- 762 employees
- 166,770 residential customers (55% inside city limits; 45% outside city limits)
- 20,205 commercial customers
- 2,386 miles of transmission and distribution lines (1,524 overhead; 862 underground)

Challenge:
Looking to move on from conventional ferroresonant charger technology in preparation for NERC TPL-001-5 compliance, Tacoma Power engineers began researching modular switch mode technology with built-in redundancy to replace their current fleet of chargers.

Options:
Having supplied Tacoma Power with batteries and battery testers back in 2017, Eagle Eye was invited to be one of the suppliers of switch mode chargers to pilot with Tacoma's Substation team a few years later.

Solution:
Streamlining its DC systems, Tacoma Power eventually decided to partner with Eagle Eye and order more BC-2500 chargers. And, eventually, in 2023, in anticipation of achieving NERC TPL-001-5 compliance throughout their Transmission substations over the next three years, the lead engineer for the utility's battery systems, Saul Kirkman, PE, moved forward with a plan to swap out all current chargers with BC-2500s.

Implementation:
Working in close collaboration, the Tacoma and Eagle Eye teams engaged in a series of training sessions to ensure the long-term success and performance of the utility's new chargers. This meant performing customized product training for both Tacoma Power's Engineering and Operations (including field techs) teams.

Results:
Facilitating Tacoma Power's desire to fast-track its charger change-outs fleet-wide in time to comply with NERC TPL-001-5, the mutual investment in this project made by both partners, provided the utility with confidence in selecting Eagle Eye and the BC-2500 as the logical vendor and product of choice to make this happen.

This was formalized in a 3-year contract to outfit all substations with this modular charger beginning in 2024.

BOOK A DEMO

Schedule a virtual demo to see for yourself how the BC-2500 charger meets NERC TPL-001-5 compliance.

– Lucas, *Business Development Manager*

QUICK LINK:
BATTERY CHARGING

EAGLE EYE
POWER SOLUTIONS

AC Load Banks

Precision Testing for Reliable Power Systems

From rack-mounted to container sizes, Eagle Eye's AC load bank testers are designed to provide accurate and reliable load testing of single or three-phase AC power systems. Models include resistive, reactive, and combined resistive/reactive designs for complete load bank testing solutions. They are ideal for generator testing, UPS system validation, data center maintenance, and renewable energy systems.

LB-AC Rack Mount

The **LB-AC Rack Mount Load Banks** provide accurate loading solutions, including heat load testing, for critical UPS & data center power applications. The rack- mounted server load banks are designed to be accurate, reliable, and easy to use for data center or test personnel. Available in multiple configurations, from 4kW-20 kW, with single- or dual-channel versions to accommodate rack-mount variations. Other custom configurations are available upon request.

AC Portable Resistive Three-Phase

Three-phase model options range from small, portable, low-power units, to high-power, indoor & outdoor permanent resistive load banks. Models come standard with push-button manual controls as well as PC software controls offering advanced load profile solutions for working with complex testing applications.

AC Resistive Reactive

The **RLB Digital series** includes mobile and outdoor rated load bank solutions from 12.5 kVA to 6,250 kVA designed for portable, permanent or mobile outdoor installations. Control features include local unit mounted plus remote control by advanced PC software. Provides easily programmed load profile solutions for working with simple to complex testing applications of various generators, UPS systems, Data centers, power generation, HVAC systems, and other critical AC power sources.

Ask about our load bank rental program.
Visit eepowersolutions.com today!

Featured Project

Roadmap Leads to a Successful Partnership

Customer:
A Fortune 50 Company that builds cutting-edge data centers that require high-capacity, scalable AC power solutions. With high visibility and millions of customers, the power infrastructure of these data centers are vital to the company's reliability and success.

Challenge:
The general contractor for this Fortune 50 end user is responsible for sourcing millions of dollars of equipment and materials to outfit each data center. Looking for a new supplier of Load Bank testers with more competitive pricing and shorter lead times, it sought other options for the 150+ needed for this latest project.

Options:
Searching online for "AC Load Banks," Eagle Eye Power Solutions appeared at the top of the search engine results page, prompting a click and visit to the Eagle Eye website by the inquiring engineer. After navigating around the website, the engineer gained enough confidence in the potential new supplier that he submitted a Request for Quote.

Solution:
Once the RFQ form was submitted, Eagle Eye Power Solutions' Sales Team immediately made contact with the customer. Trust was the cornerstone of this relationship from the very beginning, leading to transparent discovery, strategic consultation, and daily collaboration that laid the groundwork for future success.

Here's how the Sales Process developed over the coming months:

Inside Sales: Over a 90-day period, Inside Sales led persistent and intentional discovery to clarify the scope and validate the opportunity. Cross-functional pricing teams were formed, and extensive supplier communication ensured specifications and costs were accurate.

Outside Sales: With the opportunity vetted, Outside Sales provided technical guidance and built relationships with both the end user and Eagle Eye's supply partners. Constant communication positioned Eagle Eye as the preferred solution provider, leading to a major equipment order.

Leadership: Strategically reviewed pricing frameworks, sourced additional cable suppliers to minimize risk and round out the offering, and engaged regional and executive leaders to ensure alignment on critical decisions.

Implementation:
Navigating complex contract terms, international tariffs, and supply logistics, Eagle Eye's Operations team began by evaluating inventory and quality control strategies to ensure operational readiness for a project of this scale.

Meanwhile the Finance and Leadership teams aligned to provide final supply chain review and met with the customer, investing in the relationship and optimizing the overall customer experience.

Results:
Knowing that the work isn't completed by simply delivering the products on time, Eagle Eye's field and technical teams got up to speed on how to best support the installation, commissioning, and ongoing needs to ensure long-term success of the project and provide confidence to the customer for consideration of future collaboration.

Ready to enhance your power system reliability with the best AC load banks in the industry?

Contact us to learn more about our customizable solutions!

QUICK LINK:
AC Load Banks

EAGLE EYE
POWER SOLUTIONS

DC Load Banks

DC Precision Testing for Reliable DC Power Systems

Ensure the performance and reliability of your DC power systems with Eagle Eye Power Solutions' DC Load Banks. Designed for accuracy, durability, and ease of use, our load banks provide essential testing and maintenance solutions for mission-critical applications across industries.

SLB-Series Load Tester

Eagle Eye Power Solutions' **SLB-Series DC Load Testers** are designed for ease of use, portability, and versatility. Battery discharge testing is the only verifiable method to determine capacity, and the SLB provides a programmable constant current load. Ideal for capacity, performance, acceptance, or IEEE and/or NERC compliance testing, it offers an economical complete solution. Enhance safety with per-cell monitoring and built-in auto-shutdown features. With over 75 standard models, Eagle Eye fits a wide range of industries and applications at the best price.

LB-Series Load Tester

The **LB-Series Constant Current DC Load Banks** are designed for discharge testing, battery capacity testing, acceptance testing, maintenance, and other DC system applications. Portable, economic, reliable, and user-friendly, they feature over 100 standard models with a 5–600V / 0–2000A range. Intelligent technology ensures constant current discharge without adjustments during testing. Essential for industries including utilities, telecommunications, UPS, motive power/forklifts, transportation, CATV, and more.

Non-Constant Current DC Load Banks

For **Non-Constant Current** DC power testing applications model options range from small, portable, low-power units, to high-power indoor or outdoor permanent load solutions. PC software controls offer advanced load profile solutions for working within simple to complex testing applications of various battery power systems, UPS systems, Data centers, power supplies, DC systems, and other critical DC power sources.

Featured Project

Hydro Québec Chooses Eagle Eye Power Solutions for DC Load Testing Solutions

Customer:
Hydro Québec generates, transmits and distributes clean and renewable energy. Helping combat climate change while promoting a greener, stronger economy, the Canadian utility is committed to delivering reliable electricity and high-quality service through a network of 60 hydroelectric generating stations, across the most extensive transmission system in North America.

Challenge:
For Hydro Québec, safety is of the essence. Both technicians and equipment are held to the highest standards and must adhere to some of the industry's most stringent requirements. This demands that technicians must have an intimate understanding of both the DC systems themselves as well as the extensive safety protocols that have been carefully implemented at Hydro Québec.

With these requirements in place, Hydro Québec was also looking to find a comprehensive solution that could be customized to adapt to their specific requirements while also being replicable for their various subsidiaries. The solution would also have to include in-depth reporting and other value-add features that would improve safety and efficiency during operation.

Solution:
Eagle Eye knew that it would need to visit Hydro Québec's facilities multiple times in order to adequately demonstrate the solution directly on Hydro Québec's systems. Providing the customer's engineering and management teams a firsthand look at the DC system solutions allowed Eagle Eye Power Solutions to walk through the safety features, protocols, and customizations required to fulfill Hydro Québec's specific, comprehensive needs.

Additionally, the value-add safety features included automated battery monitoring capabilities, allowing technicians to capture and view per-cell values live from a safe distance while testing.

Implementation:
Eagle Eye Power Solutions worked hand-in-hand with its local Canadian rep partner, Interfax, to provide custom load cables with safety disconnects that matched Hydro Québec's DC connectors, as well as additional safety breakers on the load bank equipment side.

This, paired with the multiple demonstrations of the equipment and testing processes, allowed Hydro Québec to move forward with confidence toward the final solution.

Results:
To date, Eagle Eye Power Solutions and Interfax have successfully delivered over 30 load banks – without a hiccup – to the teams at Hydro Québec. Translating safety literature into multiple languages, as well as maintaining local CSA safety certifications with each new load bank, have further ensured the long-term safety and reliability of the load banks.

Interfax also maintains a local service team for fast, ongoing service, support, and training for Hydro Québec technicians.

SOLUTIONS BUILT FOR YOU

Load banks engineered for your exact application. Reach out to our specialists for custom sizing and advice.

– Ryan,
Product Development

QUICK LINK:
DC Load Banks

EAGLE EYE
POWER SOLUTIONS

Welding Load Banks

Precision Testing for Reliable Performance

At Eagle Eye Power Solutions, we provide industry-leading welding load banks designed to test, calibrate, and verify welding machine performance with precision and reliability. Whether you're conducting routine maintenance, troubleshooting performance issues, or ensuring compliance with industry standards, our LB-Series Welding Load Banks deliver the accuracy and durability needed for industrial welding applications.

LB-50-350A Welding Load Bank

Recommended Replacement for Miller Electric 350A Load Bank

A direct replacement for the Miller Electric 350A Load Bank, the LB-50-350A is engineered for precise welding machine calibration and performance testing.

- **Current Capacity:** Supports up to **350A**.
- **Reliable & Durable:** Built for long-term, high-accuracy testing.
- **Ideal for:** Welding machine verification and maintenance.

LB-50-750 Welding Load Bank

Recommended Replacement for Miller Electric 750 Load Bank

The LB-50-750 serves as a high-current replacement for the Miller Electric 750 Load Bank, ensuring accurate load simulation for welding systems.

- **Current Capacity:** Supports up to **750A**.
- **Precision Load Testing:** Helps maintain welding machine accuracy and compliance.
- **Ideal for:** Welding equipment calibration and performance evaluation.

A fast & convenient way to order Welding Load Banks.

Visit eepowerdistribution.com today!

Featured Project

Seamless Switch at Scale: Eagle Eye Power Solutions Rolls Out High-Volume Miller Welding Load Bank Replacements

Customer:
Welsco, now part of NexAir, has been providing quality gas and welding supplies to customers all over the Southeast United States for decades.

Challenge:
With a consolidation of product lines from its current supplier (Miller Electric), Welsco reps needed to find a new trustworthy source to deliver the same reliable welding load bank testing equipment from a new manufacturer. Welsco's service customers count on these products to frequently test and calibrate 300-500 Amp diesel generators.

Options:
As there are limited options of suppliers for this type of equipment, reps were inclined to simply use Miller's appointed successor of this product line, Eagle Eye Power Solutions, without much choice in the matter.

Solution:
After months of collaboration, and comparing and testing specifications with Miller, Eagle Eye Power Solutions was able to successfully manufacture a suitable replacement product line that could be produced at a volume high enough to meet current customer demands. Working with Miller to proactively contact its existing customer base and inform them of the new supplier and replacement equipment, Eagle Eye Power Solutions was able to provide a seamless transition for loyal customers like Welsco.

Implementation:
Once messaging and supply chain questions were finalized and answered, Eagle Eye Power Solutions began fulfilling dozens of orders for welding load banks: LB-50-350A Welding Load Bank and LB-50-750 Welding Load Bank.

Results:
Selling upwards of 75 units per year to service companies nationwide, Chris Layton, Welsco's President of Sales, has been able to enjoy a smooth pivot to Eagle Eye Power Solutions as its replacement supplier, experiencing a zero-defect rate within the initial year of sales.

"Thanks to Eagle Eye Power Solutions for providing a seamless transition to selling this product line. The support and reliability hasn't skipped a beat, and we're looking forward to selling hundreds of more of these units over the coming years."

Chris Layton
President of Sales, Welsco

GET EXPERT ADVICE
Optimize your systems with Eagle Eye load banks. Contact us for sizing & application-specific advice.
– Chad, *Inside Sales Representative*

QUICK LINK:
Welding Load Banks

EAGLE EYE
POWER SOLUTIONS

Gas Detection & Ventilation

Safe, Compliant, & Proven Solutions

Eagle Eye Power Solutions provides reliable hydrogen detection and ventilation systems for stationary battery applications in utility, telecom, and data centers. The HGD-5000 Hydrogen Gas Detector delivers accurate monitoring with audible/visual alarms and relay outputs to trigger ventilation. Paired with rugged fans, these solutions quickly remove hydrogen gas, ensuring compliance with IEEE, NFPA and NEC standards while protecting against battery gassing risks.

HGD-5000 Hydrogen Gas Detector

The **HGD-5000** is a cutting-edge hydrogen gas detector designed for real-time monitoring of hydrogen buildup in battery rooms, UPS systems, and industrial environments.

- Early detection of hydrogen to prevent explosions
- Integrated relays for ventilation and alarm system activation
- Continuous real-time monitoring with visual and audible alerts
- Wall-mounted design for easy installation
- Best for: Battery rooms, telecom facilities, and hydrogen storage areas.

MADE IN U. S. A.

VS-12-110VAC Exhaust Fan

The **VS-12-110VAC Exhaust Fan** delivers 1050 CFM of forced-air ventilation for battery rooms and industrial storage areas. Built for spaces using motive-power or stationary batteries, it helps purge hydrogen, flammable vapors, and toxic gases from confined areas to maintain a safer work environment.

HGD-5000 Accessories

Protect your facilities and personnel with Eagle Eye Power Solutions' Hydrogen Gas Detector Line. Designed for precision and reliability, our detectors monitor hydrogen levels in real time, ensuring safety compliance and preventing hazardous situations in battery rooms and other critical environments.

HGD-5000-R Repeater (Mimic) Panel

The **HGD-5000-R** can be configured as part of a Hydrogen gas detection system incorporating up to three (3) HGD-5000 hydrogen gas detectors. The HGD-5000-R can be installed at eye level, with the HGD-5000 detectors being installed 1 foot from the ceiling, providing a convenient way to monitor and test the gas detection system.

The HGD-5000-R features a manual test circuit button to allow for detection system circuitry testing without needing to access the detector units at the ceiling. The HGD-5000-R displays system status including alarm conditions, hydrogen levels, and system health.

Visual and Audible Alarm Beacon

The **HGD-AAB-A** is a remote visual and audible alarm beacon. The HGD-AAB-A offers a highly effective way to alert of a hazardous gas leak condition. The HGD-AAB-A offers redundancy and alarm in remote locations.

Alarm Beacon Cover

The **HGD-AAB-WC** enclosure is designed to prevent the HGD-AAB -WC from water ingress into the electrical housing, or junction box. Constructed out of durable polycarbonate material and slotted for sound penetration, making the HGD-AAB-WC suitable for outdoor installation.

Replacement Sensor

The **HGD-5000-Sensor** is a stand-alone catalytic replacement sensor for the HGD-5000.

Bump Testing Kit

The **EE-TEST-H-17L-KIT** is a bump testing kit that provides all of the components necessary to perform multiple "bump tests" on installed HGD detectors.

Eagle Eye's HGD-Series Hydrogen Gas Detector Line will ensure a safe working environment from hydrogen buildups that result in costly and dangerous explosions. The HGD-Series uses low-level detection sensors that provide automatic alarms and fan controls to reduce gas concentrations. Common applications include locations where hydrogen and combustible gas are emitted, parking garages, laboratories, maintenance facilities, battery rooms & charging stations. Additional hydrogen gas detector accessories, including the VS-Series ventilation system, offer increased protection from combustible gas.

QUICK LINK:
GAS DETECTION
& VENTILATION

EAGLE EYE
POWER SOLUTIONS

Portable Testing

Fast and Accurate Handheld Battery Testers

Offering resistance testers, digital hydrometers, ground fault locators, Eagle Eye Power Solutions' range of battery testing products can be counted on for quick and reliable results. Ideal for performing IEEE best practices when maintaining critical power systems.

SG-Ultra Series Hydrometers

Accurate, fast, and easy-to-use, the **SG-Ultra Series Hydrometers** are portable, highly accurate digital hydrometers. Measure the specific gravity and show the measuring results within seconds, ready for storage, printout or export to a PC (select models). Each gravity tester is housed in a carrying case and includes all required accessories to begin testing right out of the box.

IBEX Series Portable Battery Testers

The **IBEX-Series** is the premier battery resistance testers in Eagle Eye Power Solutions' portable battery tester line. The IBEX-Series is the fastest internal battery resistance tester/portable battery tester in the industry today, providing measurement results in just three seconds. The IBEX battery resistance tester is available in three different models: IBEX-Ultra, IBEX-Pro, and IBEX-EX.

GFL-1000 Ground Fault Detector & Locator

Eagle Eye Power Solutions' **GFL-1000 Ground Fault Detector & Locator** is an industry-leading testing instrument to identify faulty grounding where electrical cables have breakage and loss to the ground. The unit identifies the inadvertent ground by injecting a low-frequency signal on the faulted polarity.

Featured Project

Eagle Eye Power Solutions Locates a Two-Year Ground Fault in Remote Alaska Hydro Facility—Within Hours

Customer:
Homer Electric Association (HEA), Alaska's fifth rural electric cooperative, was established in 1945 and now serves 25,900 member-owners across 2,542 miles of energized line, covering 3,166 square miles on the Southern Kenai Peninsula.

One of HEA's primary generation assets—a hydroelectric plant at Bradley Lake—can only be accessed by two-seat aircraft, making service, maintenance, and troubleshooting uniquely challenging.

Challenge:
For over two years, HEA's hydro facility had been reporting a persistent DC ground fault indicated by one of the station battery chargers. It was difficult to locate due to:

- The plant's extreme remoteness,
- The age and configuration of the DC system, and
- Limited resources available onsite,

After exhausting internal troubleshooting efforts, HEA contacted its long-time representative, McKaig Evergreen, who escalated the issue to Eagle Eye Power Solutions for advanced diagnostics and onsite technical support.

Initial Assessment & Key Questions:
During the onsite training and consultation session, Eagle Eye instructors reviewed the system configuration and worked with HEA to reconstruct the DC system's operating history. The following details emerged:

- Facility age: 34 years
- Battery chargers: replaced 2 years prior
- Charger type: dual SCR chargers
- Charger location: both feeding the same 400A DC bus
- Fault first detected: ~18–24 months earlier
- Charger output behavior: outputs did not match—one charger was showing signs of leakage, raising suspicion of an internal fault or a bus-level distribution issue

These findings indicated the likely source was not the battery string but rather a DC distribution or charger-related leakage path, requiring direct inspection of the bus.

Implementation Plan:
As-built drawings review confirmed the only verification method for the suspected issue was to:

1. Wear full PPE
2. Open the DC distribution cabinet
3. Temporarily isolate one of the chargers

Because this required taking part of the system offline, HEA elected to wait for its next scheduled plant outage in February 2025, ensuring the diagnostic work could be performed safely without impacting operations.

Diagnostic Method:
During the outage, the HEA maintenance team used the Eagle Eye GFL-1000 Ground Fault Locator, following the procedures covered in the onsite training. The GFL-1000 allowed them to:

- Isolate the exact circuit causing the unwanted ground reference
- Trace leakage paths on the DC bus
- Compare potential fault points between the two SCR chargers

Results:
Within minutes, the HEA team positively identified the source of the two-year ground fault—something the station had been unable to locate through traditional troubleshooting and metering

Outcome Highlights:

- Ground fault located safely during the first outage window
- Diagnostic time reduced from years to minutes
- HEA staff now trained to identify and prevent similar issues
- Confidence restored in the DC system supporting the hydro facility

Eagle Eye's combination of onsite training, technical troubleshooting, and the GFL-1000 provided the utility with the clarity and tools needed to resolve the longstanding issue efficiently.

QUICK LINK:
Portable Testing

EAGLE EYE
POWER SOLUTIONS

Stationary Power

Battery Types for a Wide Range of Applications

Eagle Eye Power Solutions offers a wide range of stationary lead-acid battery products for VLA, VRLA as well as NiCad, and lithium chemistries. Delivering premium performance and optimal reliability, we offer batteries from global leaders such as EnerSys and Hoppecke that can be counted on for your long-term critical power needs.

PowerSafe CA-M & CC-M

PowerSafe DSG

PowerSafe EA-M & EC-M

GET EXPERT ADVICE

Need help deciding what is the best battery solution or with sizing your battery?

– Erik, *Sales Engineer of Stationary Power*

PowerSafe SBS XL-12V

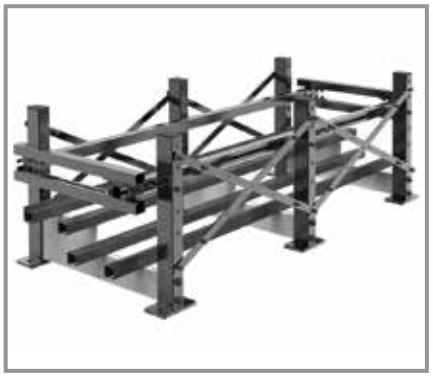
Custom Battery Racking Configurations

Eagle Eye Power Solutions' Industrial Battery Racks have been designed for all types of stationary battery storage rack applications, including both standard and seismic battery racking. In designing these easy-to-use battery racks, we have paid special attention to strength, flexibility, acid-proof protection and more! In addition, our battery racks are easy to assemble and disassemble with simple screws, plates, stringers, and supports.

Standard 2-Step, 2-Tier Rack

Standard 2-Step Rack

Seismic 2-Step, 2-Tier Rack



Seismic 2-Step Rack

Need Help with Rack Sizing?

Contact our experts for personalized assistance in sizing battery racks to your unique needs, requirements, and compliance with industry standards and regulations.

1-877-805-3377

Visit Website for Full Line of Stationary Power Products

QUICK LINK:
Stationary Batteries

Spill Containment

Eagle Eye Battery Acid Containment Solutions are designed specifically for standby power applications. The SCS-Series battery spill containment system utilizes UL recognized, flame retardant neutralization pillows which are available in several sizes.

Insulated Tools

Designed to safeguard personnel and equipment that are susceptible to shorting out and creating spiking surges to electrical apparatuses. Due to OSHA 29 CFR 1910.331 standards, insulated battery tool kits have begun to emerge to satisfy electrical safety-related work practices.

Eye Wash Stations

Meet ANSI requirements with an EYEWASH B-921 On-Site Self Contained Gravity Fed Eyewash with Clear, 7 Gallon Tank for Easy Fill Level Check. Mounts to Wall or Optional Service Cart. Gravity Fed Eyewash Tank is Refillable. ABS Plastic Eye or Eye/Facewash.

VIGILANT® Battery Monitoring System

Next Generation Battery Monitoring System

The VIGILANT® Battery Monitoring System is Eagle Eye's complete solution for meeting NERC PRC-005-6 Compliance. Within this standard, battery maintenance falls under *Table 1-4(f): "Exclusions for Protection System Station DC Supply Monitoring Devices and Systems."* This table outlines the monitoring and alarming requirements needed to alleviate periodic on-site maintenance activities. The VIGILANT is designed to meet and exceed all of these requirements. With a built-in web server, the VIGILANT system is equipped to monitor and store all required battery parameters for the life of the battery.

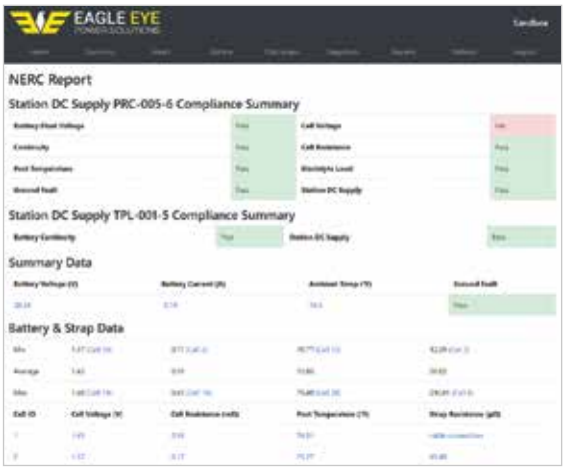
Meeting Compliance

The VIGILANT® system monitors and alarms for the following battery parameters as required in PRC-005-6:

- **Float Voltage:** Monitoring & alarming of battery float voltage measured at the battery terminals.
- **Electrolyte Level:** Monitoring & alarming of electrolyte level for every cell with infrared sensors.
- **Ground Fault:** Monitoring & alarming for unintentional DC ground fault by measuring earth potential relative to battery voltage.
- **String Continuity:** Monitoring & alarming for continuity by measuring of float current and ohmic values.
- **Cell/Unit Voltage:** Monitoring & alarming of float voltage for each cell/unit.
- **Intercell & Terminal Connection Resistance:** Monitoring each of battery terminal resistance and *each* intercell connection resistance as independent values.
- **Internal Ohmic Value:** Monitoring & alarming of each cell or unit internal resistance by DC pulse.
- **Cell/Unit Temperature:** Monitoring & alarming of each cell/unit temperature monitored at the negative post.

Features

- **One-Click Reporting:** Remove guesswork in reporting by easily creating NERC-compliant reports.
- **TPL-001-5 Compliance:** Monitoring of continuity and DC supply voltage for compliance to this standard.
- **Unobtrusive:** System does not affect battery performance in any way.
- **Battery Alarming:** Alarm against user-defined battery thresholds via Modbus, dry contact, or proprietary software.
- **Watchdog Alarming:** The system performs self-checks with a dedicated watchdog circuit and will alarm upon CPU failure, lockup, or loss of power.
- **Fleet Management Software:** Aggregate a fleet of systems on a single interface with bird's eye view alarming.

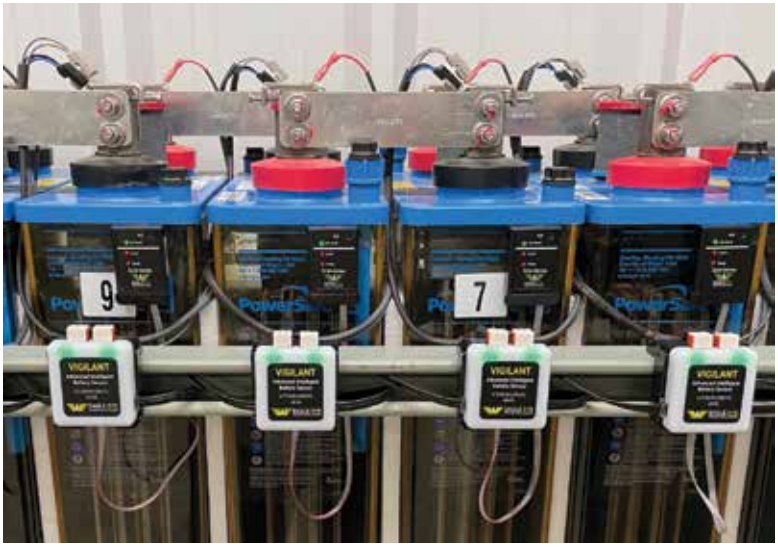


One-Click NERC Report

VIGILANT® System Components

Each VIGILANT® has the following main components:

- **Monitor:** 1 per battery bank. Records and stores measurement data, interfaces with network. Powered by the charger or external supply.
- **Sensors:** 1 per cell/unit. Pulses battery to record voltage, resistance, and temperature. Powered by the monitor.
- **Wiring Harness:** 2 per cell/unit. Wired connection from sensor to battery posts.
- **Connection Hardware:** 2 per cell/unit. Tab washer or clamp for physical connection of wiring harness to battery posts.
- **Electrolyte Level Sensor (optional):** 1 per cell. Measures electrolyte level.



VIGILANT® Components Installed

Monitor

Sensor

Wiring Harness

Connection Hardware

Electrolyte Sensor

Technical Specifications

Sensor Performance	
Voltage Measurement Range	0.05 – 18.5VDC
Voltage Resolution	± 1mV
Post Temperature Resolution	± 1°C
Cell Resistance Resolution	± 7μΩ
Strap Resistance Resolution	At 100μΩ strap r: ± 2μΩ
Float Current Resolution	At 100μΩ strap r: ± 1mA

Communication	
Onboard Storage	SSD
Memory Capacity	20 years of battery data average for 60-cell battery
Local Data Download	Via RJ45 network connection
External Protocols	Modbus TCP, DNP3
Alarm Relays	(2) Dry contact output (300V, 1A)
Network Interface	RJ45 Ethernet

Electrical Data	
Monitor Electrical Supply (from DC supply)	36 – 72VDC 90 – 300VDC 280 – 580VDC
Other Power Options	24VDC mains input (for other voltages w/adapter)
Sensor Electrical Supply	From Monitor (via comms)
Sensor Supply Current	Operating: 6mA With ELM: 10mA
Isolation I/P to O/P	1,000VDC
Test current @ 2.5V	20A

General	
Dimensions (W x H x D)	Sensor: 2 x 2 x 1 in. (50 x 50 x 25 mm) Monitor: 10 x 8.3 x 3.2 in. (255 x 210 x 80 mm)
Operating Temp. Range	-4 – 70 °C (25 – 158°F)

PowerEye UPS Battery Monitoring System

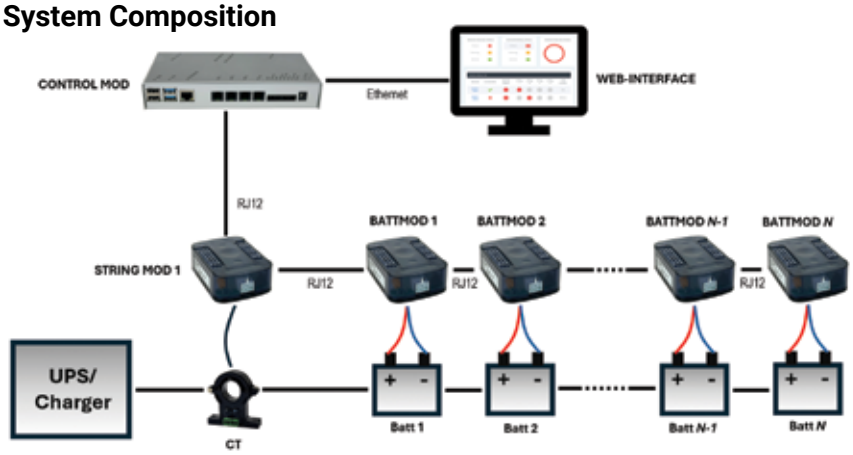
Maximize Uptime and Protect Your Employees and Investments

The **PowerEye** is an easy to install, cost-effective modular battery monitoring solution. It is designed for but not limited to UPS battery applications. At the center of each PowerEye system is a control unit which runs a web-server application. All data is stored on the control unit and accessible from a web-browser on the same network. Each control unit is capable of monitoring up to 480 battery cells/units which can be divided across 4 individual battery strings. For further expansion, an unlimited number of control units can all be configured on a single web-interface. Extend the life of your battery systems and reduce maintenance and replacement costs with proactive battery monitoring.

Features

- Local area network monitoring
- Modbus RTU and TCP/IP
- Real-time measurement and alarm status
- Detailed charge/discharge recording
- Email notifications
- Alarm & event activities
- Data management
- Monitors 16V nominal batteries
- PDF or Excel reporting
- Graphics and analysis tools
- Alarm history & service logs
- **Optional**: Cell balancing

System Composition



Technical Specifications	
Measurement Range	String voltage: 1.2 - 2500VDC String current: 0 - 500A Battery voltage: 1.2V - 16VDC nominal Internal resistance: 0.1 - 64m ohms
Battery Types	VRLA, VLA, Ni-Cad
Number of Strings/ Units	Control module: Up to 4 strings, 480 units String module: Up to 240 units
Accuracy/Resolution	String voltage: 0.1% / 10mV String current: 1% / 10mA Battery voltage: 0.05% / 1mV Internal resistance: 2% / 1µOhm
Power Requirements	Control module: 12VDC @ 1.5A, 20W consumption String module: 100mA, 1.2W consumption Battery module: 10mA – 50mA (from connected cell/unit)
Dimensions (H x W x D)	Control module: 40.5 x 200 x 95.5 mm String module: 91 x 63 x 29 mm Battery module: 91 x 63 x 29 mm
Communications	RS-485: Modbus RTU Ethernet: SNMP, Modbus TCP/IP, (2) Dry contact relay: 400V (AC-DC) 120mA
Protections	Electrical isolation 2000V Short circuit protection: Max 3.5A (internal fuse) Reverse polarity protection (battery module)

Measured Parameters

- Battery Voltage
- Battery Internal Resistance
- Battery Temperature
- Battery State of Health
- String Voltage
- String Current
- Ambient Temperature

ELM-Series Electrolyte Level Monitor

Features

- Low cost monitor for electrolyte level & cell temperature monitoring
- Auto calibrating sensors adjust to battery in seconds
- Alarm contacts for external alarming
- LED lights on monitor and sensors for visual alarming on-site or confirmation of no fault status
- Fast and easy installation, all cabling cut to length based on simple site survey
- Applicable to any flooded battery system regardless of voltage & amp-hour
- Temperature monitoring designed to protect against thermal runaway

Stop Low Electrolyte Issues Before They Become Outages

The **ELM-Series** is a reliable electrolyte level and temperature monitoring system designed for flooded batteries. Utilizing low cost, easy to install sensors, the system will alarm on low electrolyte level or higher than normal temperature. In the condition of an alarm, the sensors communicate to the system monitor and dry contact alarm(s) activate while simultaneously activating the appropriate alarm LED lights. In the event that four or more cells trigger an alarm state, the monitor will trigger a group alarm in addition to the single alarm. The alarm contacts may be linked in to any facilities management or alarm system for remote monitoring.

Cost-Saving Benefits

The ELM allows for significant savings in maintenance costs for battery sites by reducing the manpower needed to inspect battery electrolyte levels. Per NERC Standard PRC-005-6, no periodic on-site inspection of cell electrolyte level is required when remote electrolyte level monitoring with alarming is utilized.

Sensor Installation

Installation of the ELM sensors is simple and fast. Sensors are daisy chained together via provided, pre-cut ribbon cable. All required materials for installation are provided. Each ELM sensor is installed to the front of the battery case via a peel-off adhesive.

Sensor LED Indicators

Each sensor has (3) LED lights. The LED's provide quick visual cues to determine the condition of specific cells in a battery system.

- **No Fault -** Green LED when the sensor is powered on and no fault is detected
- **Level -** Red LED when the sensor detects the electrolyte level is low
- **Temperature -** Red LED illuminates when temperature exceeds set threshold

Technical Specifications	
Battery Types	Compatible with all transparent flooded battery types
Temperature Alarm Activation	**35 °C (95 °F), ± 2 °C (3.5 °F)** **49 °C (120 °F), ± 2 °C (3.5 °F)** **63 °C (145 °F), ± 2 °C (3.5 °F)** **Optional: No temperature alarm**
Level Accuracy	±2 mm (± 0.08") above or below line label
Input Voltage	12 VDC, AC/DC wall adapter included standard Additional voltage inputs available with optional PSU
Output Relays	SPDT volt-free contact relays for: 1+ low electrolyte level detection 4+ low electrolyte level detection 1+ high temperature detection 4+ high temperature detection
Dimensions (L x W x D)	**Monitor:** 176 x 80 x 51 mm (6.9 x 1.6 x 3 in.) **Sensor:** 54 x 35 x 15 mm (2.2 x 1.4 x 0.8 in.) **Sensor Cradle:** 65 x 52 x 14 mm (2.6 x 2.1 x 0.6 in.) **Cables:** 1.25mm pitch at length of 305 mm (12 in.)

System Includes

- ELM Monitor
- ELM Sensors
- Sensor Mounting Cradles
- Pre-Cut Ribbon Cables
- Print Installation Manual
- 12V AC Wall Adapter
- **Optional:** Additional power supplies available for various AC or DC inputs

BC-2500 High Efficiency Modular Stationary Charger

Common Applications: Stationary, substation, utility, switchgear, process control, & industrial applications

BC-2500 4-Bay and 8-Bay Chassis
**Optional Touchscreen shown*

Eliminate Single Points of Failure and Keep Critical DC Power Online

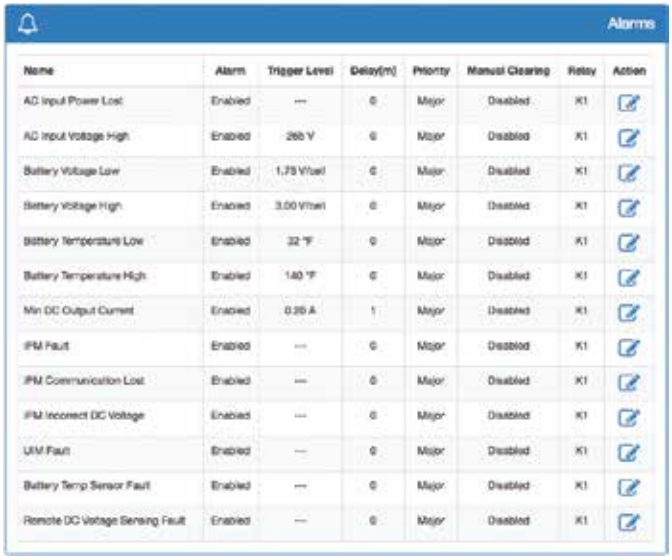
The **BC-2500** is a stationary float battery charger based on a high efficiency modular, redundant platform design. It utilizes high availability with uptime architecture. Available in 480W or 400W with hot-swappable Intelligent Power Modules (iPMs) which are available at the following ratings:

- 24V with ranges 10 – 40 VDC, 0-80 ADC
- 48V with ranges 30 – 61 VDC, 0-80 ADC
- 130V with ranges 75 – 150 VDC, 0-64 ADC

Multiple iPMs in a single chassis provide redundancy (N+1, N+2, etc.) and will continue to operate independently if the user interface module (UIM) fails. This ensures maximum reliability for critical uptime applications. Our chargers are compatible with a range of battery types including VLA, VRLA, Ni-Cd with user defined alarms to suit each battery type.

Features

- Low DC output ripple - battery eliminator option standard
- AC/DC powered UIM for continued operation without AC
- Heavy-duty steel chassis with high quality conformal coated circuit boards for moisture protection
- Convection cooled with wide -40 – 70°C (-40 – 158°F) operating range and no fan failure points
- High energy efficiency of > 93% at 240 VAC and > 91% at 120 VAC and full load
- Battery temperature compensation with controlled limits
- Alarms can be individually enabled/disabled, assigned a delay
- Alarm SCADA options, SNMPV2, Modbus TCP/RS232/RS485, DNP3 TCP/RS232/RS485, and Dry Contacts
- Optional digital amp/volt meter for 4-Bay models
- Meets IEEE std 2405-2022



Software View on PC or Mobile Browser

iPM (Intelligent Power Module)

- Modular & convection cooled
- Multiple iPMs in a single charger offer redundancy
- Hot swappable

Web-Based Software

- Internal web server uses a modern, responsive framework for attractive display on smart phones and tablets
- Access on any desktop PC or laptop via web browser
- View all measured parameters in real-time
- Log up to 10,000 history records, downloadable to a CSV file
- Ethernet communication standard for field or remote monitoring

AC Input	
Voltage range, rated	100 – 240 VAC
Voltage range, operating	90 – 264 VAC; < 100 VAC: reduced power
Frequency, rated	50 – 200 Hz
Frequency, operating	45 – 205 Hz
Phase	Single-phase
Efficiency	> 91%, 120 VAC, full load; > 93%, 240 VAC, full load;
Power Factor	> 0.98, 120 VAC, full load; > 0.96, 240 VAC, full load
Protection	Current limit, surge, transient (lightning), under voltage, over voltage
DC Output	
Voltage range	
24 VDC	10 – 40 VDC
48 VDC	30 – 61 VDC
130 VDC	75 – 150 VDC
Power, maximum, per iPM	
24 VDC	400 W
48 VDC	480 W
130 VDC	480 W
Current, maximum, per iPM	
24 VDC	10 A
48 VDC	10 A
130 VDC	4 A
Current, rated, per iPM	
24 VDC	10 A
48 VDC	8.1 A
130 VDC	3.3 A
Protection	Current limit, short circuit, reverse polarity, surge, transient (lightning)
Environmental	
24 VDC	-40 – 70°C (-40 – 158°F)
48 VDC, 130 VDC	-40 – 70°C (-40 – 158°F) > 50°C: reduced power mode
Storage Temperature	-55 – 85°C (-67 – 185°F)
Humidity Range	0 – 95%, non-condensing
Operations	
TPL Compliance Charging Operations	Automated/Manual Continuity Test
Load Testing	Manual Load Testing
Certifications	
UL/CSA/CEC certified, Meets IEEE std 2405-2022	

User Interface	
Communication	Ethernet; 10/100BASE-TX; auto crossover, auto MDI-X; RJ45 connector; support for TCP/IP, NTP, and SNMP Traps; internal web server; ability to be used for networked comm or direct comm (direct connection to a laptop). Optional Communication Protocols DNP3, Modbus, 61850.
DC voltage switches	2 switches for Number of Cells 3 switches for Volts per Cell
Button	Confirm Local Presence
Battery temp comp	Yes (sensor optional)
Remote voltage sensing	Yes (sensor optional)
LEDs	
UIM	4 single-color; AC Present, Alarm UIM Status, Confirm Local Presence
Front Panel	3 single-color; AC Present, Alarm & UIM Status
iPM	1 tri-color; DC Output, Fault
Alarming	
Alarms	Individually enabled/disabled assigned a delay, assigned a priority, assigned to the summary alarm relay
Summary alarm relay	Form C, dry contact
Ethernet alarming	SNMP Traps
Logging	Up to 10,000 events (alarms, faults, AC on/off)
Mechanical	
Cooling	Natural convection (no fans)
Protection	Conformal coated circuit boards
AC/DC terminals	Screw terminal block
Mounting	Wall, shelf, floor, EIA 19-inch and 23-inch rack (front or rear)
Dimensions (WxHxD) & Weight (Including standard brackets)	
4-slot chassis	18.93 x 17.71 x 12.79 in. (481 x 450 x 325 mm) 65 lbs. (30 kg) 41 lbs. (19 kg) unloaded
8-slot chassis	18.93 x 30.5 x 14.31 in. (481 x 775 x 363 mm) 125 lbs. (57 kg) 77 lbs. (35 kg) unloaded
16-slot chassis	18.93 x 51.25 x 14.47 in. (481 x 1302 x 325 mm) 220 lbs. (99.8 kg) 112 lbs. (50.8 kg) unloaded

Ordering Information

Model No.	Description
BC-2500	Modular Float Battery Charger & Power Supply: 24, 48, or 130 VDC. **Includes Standard:** 10 ft temperature cable, 10 ft voltage sense cable, breakers, mounting assembly for 19 or 23 inch racks. **Optional:** Ground fault detection, Modbus communication, external alarm board, high interrupt breakers, floor stand (4 and 8-bay)

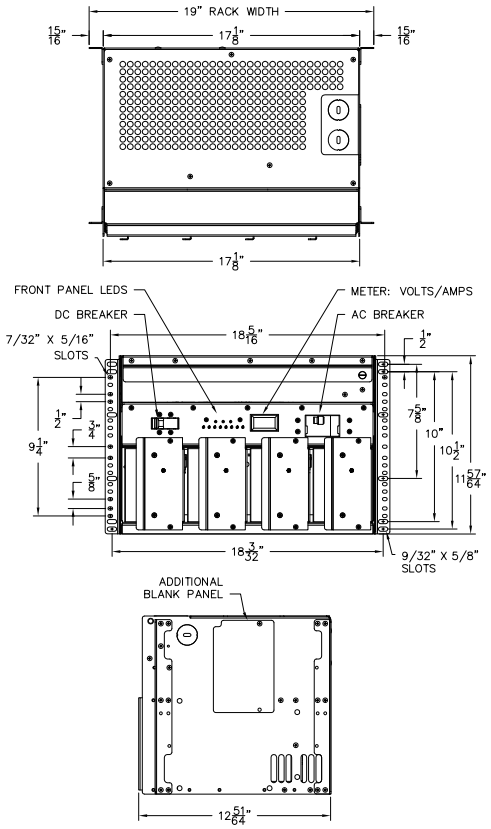
Doghouse BC-2500 – High Efficiency Charger

Doghouse BC-2500

Common Applications

- Doghouse
- Retail Station
- Stationary
- Substation Utility
- Switchgear
- Process Control
- Industrial Applications

CAD Drawing



Small Footprint, Serious Uptime

The Doghouse BC-2500 is a stationary float battery charger based on a high efficiency modular, redundant platform design. It utilizes high availability with uptime architecture. Available in 480W or 400W with hot-swappable Intelligent Power Modules (iPMs) which are available at the following ratings:

- 24V, 10 – 40 Amps
- 48V, 10 – 40 Amps
- 130V, 4 – 16 Amps

Multiple iPMs in a single chassis provide redundancy (N+1, N+2, etc.) and will continue to operate independently if the user interface module (UIM) fails. This ensures maximum reliability for critical uptime applications. Our chargers are compatible with a range of battery types including VLA, VRLA, Ni-Cd with user defined alarms to suit each battery type.

Features

- Low DC output ripple - battery eliminator option standard
- AC/DC powered UIM for continued operation without AC
- Heavy-duty steel chassis with high quality conformal coated circuit boards for moisture protection
- Convection cooled with wide -40 – 70°C (-40 – 158°F) operating range and no fan failure points
- High energy efficiency of > 93% at 240 VAC and > 91% at 120 VAC and full load
- Battery temperature compensation with controlled limits
- Alarms can be individually enabled/disabled, assigned a delay
- SNMP alarming and NTP date/time sync via Ethernet
- Digital Amp/Volt meter standard
- Meets IEEE std 2405-2022

iPM (Intelligent Power Module)

- Modular & convection cooled
- Multiple iPMs in a single charger offer redundancy
- Hot swappable

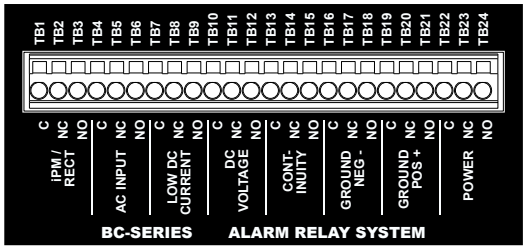
Web-Based Software

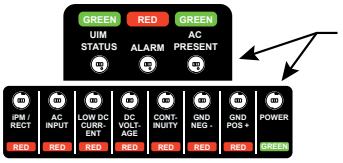
- Internal web server uses a modern, responsive framework for attractive display on smart phones and tablets
- Ethernet communication standard for field or remote monitoring
- Access on any desktop PC or laptop via web browser
- View all measured parameters in real-time
- Log up to 10,000 history records, downloadable to a CSV file

AC Input	
Voltage range, rated	100 – 240 VAC
Voltage range, operating	90 – 264 VAC; < 100 VAC: reduced power
Frequency, rated	50 – 200 Hz
Frequency, operating	45 – 205 Hz
Phase	Single-phase
Efficiency	> 91%, 120 VAC, full load; > 93%, 240 VAC, full load;
Power Factor	> 0.98, 120 VAC, full load; > 0.96, 240 VAC, full load
Protection	Current limit, surge, transient inrush, under voltage, over voltage
DC Output	
Voltage range	
24 VDC	10 – 40 VDC
48 VDC	30 – 61 VDC
130 VDC	75 – 150 VDC
Power, maximum, per iPM	
24 VDC	400 W
48 VDC	480 W
130 VDC	480 W
Current, maximum, per iPM	
24 VDC	10 A
48 VDC	10 A
130 VDC	4 A
Current, rated, per iPM	
24 VDC	10 A
48 VDC	8.1 A
130 VDC	3.3 A
Protection	Current limit, short circuit, reverse polarity, surge, transient (lightning)
Environmental	
24 VDC	-40 – 70°C (-40 – 158°F)
48 VDC, 130 VDC	-40 – 70°C (-40 – 158°F) > 50°C: reduced power mode
Storage Temperature	-55 – 85°C (-67 – 185°F)
Humidity Range	0 – 95%, non-condensing
Operations	
TPL Compliance Charging Operations	Automated/Manual Continuity Test
Load Testing	Manual Load Testing
Certifications	
UL/CSA/CEC certified Meets IEEE std 2405-2022	

User Interface	
Communication	Ethernet; 10/100BASE-TX; auto crossover, auto MDI-X; RJ45 connector; support for TCP/IP, NTP, and SNMP Traps; internal web server; ability to be used for networked comm or direct comm (direct connection to a laptop). Optional Communication Protocols DNP3, Modbus, 61850.
DC voltage switches	2 switches for Number of Cells 3 switches for Volts per Cell
Button	Confirm Local Presence
Battery temp comp	Yes (sensor optional)
Remote voltage sensing	Yes (sensor optional)
LEDs	
UIM	4 single-color; AC Present, Alarm UIM Status, Confirm Local Presence
Front Panel	3 single-color; AC Present, Alarm & UIM Status
iPM	1 tri-color; DC Output, Fault
Alarming	
Alarms	Individual critical Dry Contact Alarms
Summary alarm relay	Form C, dry contact
Ethernet alarming	SNMP Traps
Logging	Up to 10,000 events (alarms, faults, AC on/off)
Mechanical	
Cooling	Natural convection (no fans)
Protection	Conformal coated circuit boards
AC/DC terminals	Screw terminal block / Dead front
Mounting	Wall, shelf, floor, EIA 19-inch rack (front or rear)

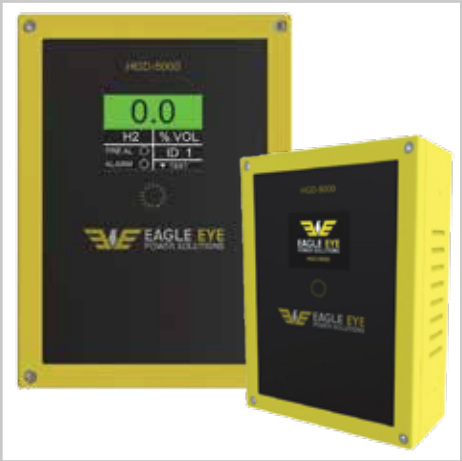
Multiple Dry Contact Alarm Points, Standard.





Bright bi-color LED indicators for clear and easy status updates at a glance.

HGD-5000 Hydrogen Gas Detector



HGD-5000 Hydrogen Gas Detector

Detect Hydrogen Early and Trigger Ventilation Automatically

The **HGD-5000 Hydrogen Gas Detector** is a state-of-the-art product designed to accurately and efficiently monitor hydrogen gas buildup in storage rooms and facilities that house batteries. It is actively specified by enclosure house manufacturers, substations, and engineering firms around the globe.

It provides terminal block connections for single-phase 110 AC, 24VAC or 18-60VDC power. Detected Hydrogen levels are displayed in "% Vol" and traffic light indication LEDs – Green (Normal), Yellow (Warning – 1% Vol, warning relay will close, activating the ventilation fan), and Red (Alarm – 2% Vol, alarm relay will initiate an 80 dB internal warning).

Features

- ***Replaceable sensor with a 10-year life cycle***
- 110AC, 24V AC, 18-60VDC power supply
- 2* Internal relays for fan/alarm activation
- 2* Analogue outputs
- Output to external strobe
- 4-sec alarm delay to prevent false activation
- Supplied calibrated
- Designed in the USA

Applications

- Utilities and Power Plants
- UPS Power Systems
- Fuel Cell Test Stations
- Nuclear Waste Reforming
- Hydrogen Refueling Stations
- Fire Department
- Battery Suppliers
- Battery Charging Rooms
- Golf Cart

Technical Specifications	
Target Gas	Hydrogen 1% Vol (warning) 2% Vol (Alarm)
Operating Environment	-10 – 40 °C (14 – 104 °F)
Housing Material	ABS PA765. Flame Retardant UL 94V-1
Display	1.8" TFT
Rated Voltage	90-250 VAC, 18-60 VDC
Electrical Safety & EMC	CE / UKCA BS EN 61010-1:2010 +A1:2019. & BS EN 50270.
Dimensions (H x W x D)	5.95 x 4.37 x 1.97 in (151 x 111 x 50 mm)
Weight	7.5 oz
End-of-life Years	10

VS-12-110VAC Hydrogen Gas Exhaust Fan

VS-12-110VAC

Purge Hazardous Vapors with Demand-Controlled Ventilation

The VS-12-110VAC Battery Exhaust Fan is a high-capacity 1050 CFM forced-air ventilation solution designed for battery charging rooms, industrial battery storage areas, and other environments where motive power or stationary batteries are in use. It provides essential ventilation in confined spaces where hydrogen gas, flammable vapors, or toxic gases may accumulate.

Engineered for optimal safety and efficiency, the VS-12-110VAC is designed to work in tandem with the Eagle Eye Power Solutions HGD-5000 Hydrogen Gas Detector and Repeater. Together, they create a complete battery room ventilation and gas detection system—ideal for remote facilities, off-grid locations, and sites that require a low-cost, easy-to-install hydrogen ventilation solution.

Advantages:

- High airflow capacity for rapid gas removal (1050 CFM)
- Ideal for motive power, stationary battery, and industrial applications
- Seamless integration with the HGD-5000 for automatic fan activation
- Cost-effective solution

Features

- 1050 CFM wall mounted fan
- Motorized dampers locked when open or closed
- Simple installation with sliding collar to fit different wall thicknesses
- Available in 120 VAC
- Insurance premium reduction may be realized
- UL approved

Compatible with **Eagle Eye HGD-Series** hydrogen gas detectors (HGD-5000 shown)

Technical Specifications	
Mounting Requirements	Opening: 311 x 311 mm (12.25 x 12.25 in.) Wall thickness: 1.5 to 8 in. (38 to 254 mm)
Dimensions (L x W x H)	9.5 x 12 x 12 in. (241 x 305 x 305 mm)
Power Requirements	110 AC, .67A (80W)
Airflow	1050 CFM

GFL-1000 Ground Fault Locator

GFL-1000 Kit

Pinpoint DC Ground Faults Fast Without Taking Systems Offline

The Eagle Eye GFL-1000 Ground Fault Locator is an essential instrument to identify faulty grounding where electrical cables have breakage and loss to the ground. The unit identifies the inadvertent ground by injecting a low frequency signal on the faulted polarity. By following the signal using the current clamps and the portable receiver, the physical location of the ground fault can be found. Measurement of online DC systems is possible as the output current of the GFL-1000 is very low but the output voltage can be up to 1000V.

Compliance with NERC PRC-005-6 requires that the battery and DC power system be inspected for inadvertent grounds every four months. If a ground fault exists the GFL-1000 is the tool by which that fault can be located without the need to de-energize the live circuit.

Features

- Patented technology, pinpoint current leakage fault with grounding resistance lower than 1MΩ
- Locate faults for both offline and online DC systems
- Waveform analysis will analyze the interference signal in the circuit
- Wide output voltage range allows the GFL-1000 to meet the needs of your electronic equipment

Technical Specifications	
Output Voltage	24, 48, 110, 220, 500, 1000 VDC
Output Frequency	10 Hz
Output Current Limitation	5 mA or Unlimited (Max 25mA)
Fault Location Sensitivity	≤ 1 MΩ
Current Detect Sensitivity	AC/DC Circuit: ≥ 0.5 mA
Quick Search Clamp	55 mm (diameter), 60 mm (jaw opening)
Current Sensor	φ8 and φ20
Jaw Opening	60 mm (2.36 in)
Display	Backlit Color LCD
Operating Environment	Temperature: -5 – 40 °C (23 – 104 °F)
Power Requirements	Qty (2) Rechargeable Li-Ion Batteries with AC Power Adapters included
Dimensions	360 x 260 x 135 mm (14.2 x 10.2 x 5.3 in)
Weight	7 kg (15.4 lbs)

Signal Receiver

Kit Includes

- GFL-1000 Signal Generator
- Power Adapter
- Qty. (2) Signal Testing Leads
- Qty. (2) Alligator Clips
- Punctuation Clip
- Signal Receiver
- Qty. (2) Dual-Range Current Detector
- Qty. (2) Batteries
- 120/220 50/60 Hz Battery Charger
- Carrying Case

Ordering Information

Model No.	Description
GFL-1000	Ground Fault Locator, Range: 24-1000V, 10 Hz

SG-Ultra Digital Hydrometer/Density Unit

SG-Ultra

Faster Electrolyte QA and Battery Trending

The SG-Ultra digital hydrometer/density meter offers 99.999% accurate, temperature-compensated specific gravity, density, and density-related values. Select from multiple units of measure to suit your measurement needs or create custom user-defined requirements. Results include sample identification, measurement unit, temperature correction coefficient, instrument identification and date & time. Results can be downloaded to a printer or PC easily. Reliable results appear in just 3 seconds - just immerse the sampling tube, pull the trigger, and read the final result. Trend results with included management software. The SG-Ultra is commonly used for battery testing (lead-acid & Ni-cad), alcohol and food testing, petroleum testing, and other custom density tests.

Features

- 99.999% Accurate
- User-friendly design: compact and lightweight for easy handling and convenient one-handed measurements
- Large, easy-to-read LCD display with backlight
- Robust & rugged, comes with protective carrying case. Sustains tough field environments with a sealed housing
- Wireless Communication Infrared data interface for data exchange with a PC and data export to a printer (data transfer accessories included)
- Storage of up to 1100 results including sample ID, measurement unit, temperature correction coefficient, instrument identification, date and time
- The following measuring units are available for selection: Density, Comp. Density, SG (T/T), SG, API, Brix, Alcohol, H2SO4, Baume, Plato, Proof, Concentration
- Reliable CE Compliant and One Year Warranty

Technical Specifications	
Measurement Range	Density: 0.000 – 2.000 g/cm3 Sample Temperature: 0 - 40 °C (32 - 104 °F) Viscosity: 0 – 2,000 mPa
Accuracy	Density: 0.001 g/cm3 Temperature: ±0.2 °C (±0.4 °F)
Resolution	0.0001 g/cm3
Minimum Sample Volume	2 mL
Communication	IrDA Interface
Display	Backlit LCD
Internal Storage	1100 Results
Power Requirements	(2) AAA Batteries
Dimensions	229 x 114 x 64 mm (9 x 4.5 x 2.5 in.)
Weight	360 g (12.7 oz.)
Kit Dimensions	41 x 10 x 20 cm (16 x 14 x 8 in.)
Kit Weight	3.6 kg (8 lbs.)
Sample Tube Dimensions	142.875 x 3.175 mm / 5.625 x 1/8 in. Diameter *Custom lengths available

(1) Sample must not freeze in the measuring cell

SG-Ultra Kit

Kit Includes

- SG-Ultra
- Sample Tube (5.625” x 1/8”)
- IrDA Adapters
- SG-Ultra Management Software
- Carrying Case
- User Manual

Ordering Information

Model No.	Description
SG-Ultra	Digital Hydrometer, Data-Logging, Range: 0.0000 – 2.0000

IBEX-Series Portable Battery Testers

IBEX Ultra Kit

Test Battery Health in 3 Seconds

The IBEX-Series Portable Battery Testers are the fastest, smallest and most accurate battery testers in the industry today. Ensure reliability of backup power systems and prevent unexpected failures with the IBEX-Series. Eagle Eye Power Solutions offers multiple IBEX kit options to meet any company's needs and budget. Test internal resistance or conductance, cell voltage, ripple current, temperature, and connection resistance to ensure you are testing per IEEE and NERC Recommendations.

The IBEX-Series is commonly used in the utility, telecommunications, UPS, transportation, and mission critical industries, and is the preferred battery tester by service groups worldwide. The IBEX injects a minimal test current into the tested batteries and precise & repeatable results appear in just 3 seconds. Battery Management Software is included with each IBEX-Series kit to easily identify bad cells, create reports, save data, and ensure the integrity of backup power systems.

Features

- IEEE Recommended: Meets IEEE Std 1188-1996 and 2005 "Recommended Practice for Maintenance, Testing, and Replacement for Stationary Applications
- Precise & Repeatable: Utilizes a patented ripple-removing algorithm
- Durable: Simple design with no moving parts
- Online Tester: Test batteries while they are in service
- Fast: Automatically measures and stores data in just 3-4 seconds
- Comprehensive Battery Diagnostic Software: Available software provides an easy to use interface for data management, trending analysis, exporting to excel, viewing graphs and creating reports
- Battery Bank Management: Upload battery bank and alarm information to the IBEX from the included software
- Charging ripple current analysis (%) with IBEX-Ultra

IBEX-Ultra with 4-Pin Test Leads and CT Clamp Meter

Extender Rods

IBEX Kits Include

All IBEX Models: (Standard Kit)	IBEX Body, Soft-Poly-Vinyl Bag, 4-Pin Test Leads, Li-Ion Battery, USB Cable, Serial Comm Software, Standard Charger (100 to 240 VAC), Hard Plastic Carrying Case, User Manual
IBEX-Ultra	Exmons Ultra Software, Temperature Probe, 0.5mΩ Shunt, Spare 4-Pin Test Lead Tips, DC Clamp Meter
IBEX-Pro	Exmons Ultra, 0.5mΩ Shunt, Spare 4-Pin Test Lead Tips
IBEX-EX	Standard Kit
Optional	Modular Extender Rods with LED light (91 cm, 3 ft) for testing UPS cabinets; Thermal Printer, Paper Rolls for IR Printer

Exmons Battery Management Software

Exmons Battery Management Software

- Import test data from the IBEX and Digital Hydrometers
- Organize test data into structured groups including the test site, battery bank, and test date
- Analyze trends in battery health by trending battery systems over time
- Easily identify problematic cells through colored graphs and cells
- Generate Reports or export directly to Microsoft Excel
- Available in three versions to best fit your needs - uploading specific gravity possible with the complete IEEE/NERC Kit
- Exmons Software is only compatible with measuring unit set to Ohms (resistance)

Technical Specifications	
Battery Types	VLA, VLRA, Ni-Cad, & Others
Parameters Measured	Internal Ohmic Resistance, Inter-Cell Resistance, Voltage, Temperature (Ultra), DC Current (Ultra), DC Ripple Current (Ultra)
Measurement Range	**Battery Capacity:** 10 – 6000 Ah **Voltage:** 0.1 – 60 VDC **Ohmic Range:** 0.001 – 300mΩ
Accuracy	**DC Voltage:** ±0.5% **Internal Resistance:** ±1.0% **Temperature:** ±2.0%
Resolution	**DC Voltage:** 10 mV **Internal Resistance:** 0.001 mΩ **Temperature:** 0.5 °C (0.5 °F)
Test Speed	3 – 4 seconds per cell/unit
Test Load	Less than 2 A per cell/unit
Alarms	Voltage Over & Under, Resistance Warning & Fail, Temperature Over
Calibration Method	Auto Calibration
Data Transfer	USB Cable to PC
Display	Backlit LCD
Internal Storage	**IBEX-Ultra:** 4800 Results **IBEX-Pro & EX:** 600 Results
Alarms	**IBEX-Ultra:** 80 Alarms **IBEX-Pro & EX:** 4 Alarms
Operating Environment	-20 – 80 °C (-4 – 176 °F)
Power Requirements	Li-ion Battery Pack (2200 mAh, 11.1V) 3 – 4 Hours of testing
Dimensions / Weight	175 x 95 x 42 mm (6.8 x 3.7 x 1.6 in) / 0.65 kg (1.4 lbs)

Applications

- Utilities
- UPS
- Service Groups
- Oil, Gas, Fuel
- Green Energy
- Nuclear Power
- Municipalities
- Mining
- Hospitals
- Motive Power
- Telecommunication
- Transportation
- Mission Critical Facilities
- Industrial Manufacturing
- Battery Manufacturers and Suppliers

Complete IEEE/NERC Kit

- IBEX-Ultra Battery Tester
- SG-Ultra Max Digital Hydrometer
- Exmons Ultra Plus All-In-One Software

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