

## EDUCATION.



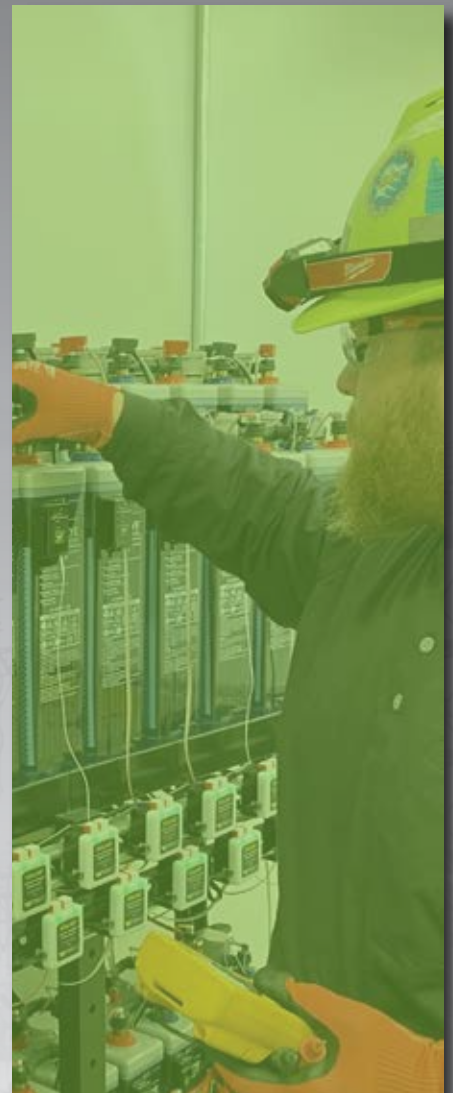
**Eagle Eye University**

## SOLUTIONS.



**Battery Monitoring for  
NERC Compliance**

## SERVICES.



**Install, Removal and  
Preventative Maintenance**

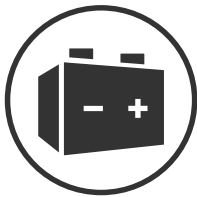
## Who We Are /// The Eagle Eye Advantage

Eagle Eye Power Solutions, LLC, headquartered in Mequon, WI, is the global leader in combining Critical Power **Education, Solutions** and **Services**. Our DC Power specialists work with Utilities and other Critical Power clients to increase reliability, decrease costs, and meet compliance.

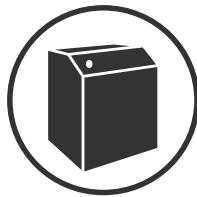
Our 6 divisions plus our hands-on training with **Eagle Eye University (EEU)** ensure that Eagle Eye is your full critical power education, solutions and services partner!



**Battery  
Monitoring**



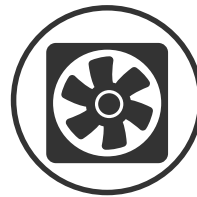
**Stationary  
Power**



**Load  
Banks**



**Portable  
Testing**



**Gas &  
Ventilation**



**Eagle Eye  
Services, LLC**

## Our Passion

*"TO MAKE OUR CUSTOMERS, EMPLOYEES AND  
COMMUNITY MORE POWERFUL"*

## Our Core Values



**CUSTOMER  
First**

Devoted to building long-lasting relationships, we strive to always look out for the best interest of our customers – before, during, and after the sale.



**We take  
OWNERSHIP**

With a positive outlook and a dedication to accountability, we do our best, work as a team and take full responsibility for our actions.



**Lead through  
EDUCATION**

Committed to providing education to our customers, employees and partners. In an ever-changing world, we see the value in continued education and strive to increase Critical Power reliability and safety through **Eagle Eye University (EEU)**.

## Your Eagle Eye Experience

Customers have expressed to us that their #1 complaint with many companies is that they do not focus on the complete customer experience. Often, they can't speak with a person, they do not get a quote when they need it, delivery is not as promised, they cannot get technical support and more.

Therefore, Eagle Eye has created a proven process to ensure our customers receive an exceptional customer experience each and every time. Outlined below, you will find the Eagle Eye Experience (EEE) that we have developed with our customers to ensure we cover ALL aspects of the customer experience. Many other companies only focus on receipt of order and fulfillment of order, but that only makes up 10% of the customer process. At Eagle Eye, we focus on that *and* the other 90% of the customer process that is essential to an exceptional customer experience.







## 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. Plus, ask about live regional training sessions coming to a region near you!

**Get hands-on knowledge from EEU's proven battery experts:**

- 40+ year industry experience
- Senior IEEE Standards Association Members
- Power and Energy Society's Stationary Battery Committee Members (PES SBC)
- Contributing authors to numerous trade publications and manuals

### Course Curriculum Includes Topics Such As:

- Discharge Testing
- Battery Analytics
- Battery 101 PLUS
- DC 101 PLUS
- Introduction to Batteries & Battery Maintenance
- NERC Battery Maintenance for Utilities
- NERC PRC-005-6 Battery Operation & Maintenance Compliance
- Custom Curriculums Tailored to Your Training Needs!

For more information, call us today at 414-962-3377.





## Online Training

Get online, on-demand access to our most popular battery training courses. Fit training into your busy schedule by doing it on your own time, at your own pace, and from anywhere.

**What's Included:**



**30-Day Access to  
Course Material**



**Certificate of  
Completion**



**Optional Q&A with  
Instructor**



**Interactive Experience  
& Quizzes**



## In-Person Training

Experience hands-on training in our state-of-the-art battery room at our Eagle Eye Power Solutions headquarters. Put your knowledge to the test with instructor-led, practical training that will help you prepare for real world applications.



## 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, where your employees can experience the convenience of learning in a familiar environment on equipment they use every day.



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

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

# EAGLE EYE SERVICES



## Eagle Eye Services

A Subsidiary of Eagle Eye Power Solutions

### On-Site BMS Services

From installation, start-up and commissioning to preventative maintenance, Eagle Eye Services, LLC (EES) delivers hands-on expertise when setting up and maintaining Eagle Eye Battery Monitoring Systems – now and for years to come.

While a BMS can minimize maintenance over time, regularly scheduled inspections are still the best way to ensure long-term, optimal performance. Customize your service plan from the options below and establish an ongoing partnership with Eagle Eye.

#### Base Package:

- Annual/bi-annual/quarterly maintenance intervals
- Inspect/verify torque of all connectors
- Inspect all wiring for any damage/corrosion
- Update monitoring Firmware
- Verify/adjust parameters or customer specs
- Calibrate resistances/voltages/temperatures
- Clean system sensors/modules/monitor
- Provide Commissioning Report/maintenance confirmation
- Conduct trend analysis
- Visually inspect monitoring hardware

*\*if applicable*

#### Additional Options:

- Measure voltages/internal resistances/strap resistances/AC ripple/ground faults/temperatures/specific gravity\*
- Replenish electrolyte levels\*
- Inspect rack/battery cabling/connections for corrosion/faults
- Clean battery system
- Inspect charger for alarms/damages
- Provide thermal imaging of battery/BMS/DC Bus/charger connections
- Torque all battery connections to manufacturer specs
- Analyze all discharge records
- Inspect room ventilation/hydrogen sensors

Contact an EES representative to learn more about our optional Emergency Response and Extended Warranty programs.



## Battery System Preventative Maintenance

Want to get the most out of your critical backup battery applications? 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. Customize your service plan from the options below and establish an ongoing partnership with Eagle Eye.

### Base Package:

- Annual/bi-annual/quarterly maintenance intervals
- Measure/record overall float voltage at battery terminals
- Measure/record charger output current/voltage
- Measure/record ambient temperature of battery room/cabinet
- Visually inspect cell/unit integrity for evidence of potential problems
- Measure/record internal resistance of individual cell/unit
- Measure/record voltage at each cell/unit
- Measure/record cell-to-cell/terminal connection resistance
- Check electrolyte levels
- Check structural integrity of rack/cabinet

### Additional Options:

- Measure/record specific gravity on each cell/unit
- Check for unintentional battery ground faults
- Measure/record AC ripple
- Analyze all discharge/maintenance records
- Clean battery system
- Inspect charger for alarms/damages
- Provide thermal imaging of battery/BMS/DC Bus/charger connections
- Torque all battery connections to manufacturer specs
- Inspect charger for alarms/damages
- Inspect battery room ventilation/hydrogen sensors

**Discover a PM program that's right for your short and long-term battery system needs.**

## IEEE Compliant Capacity/Discharge Testing

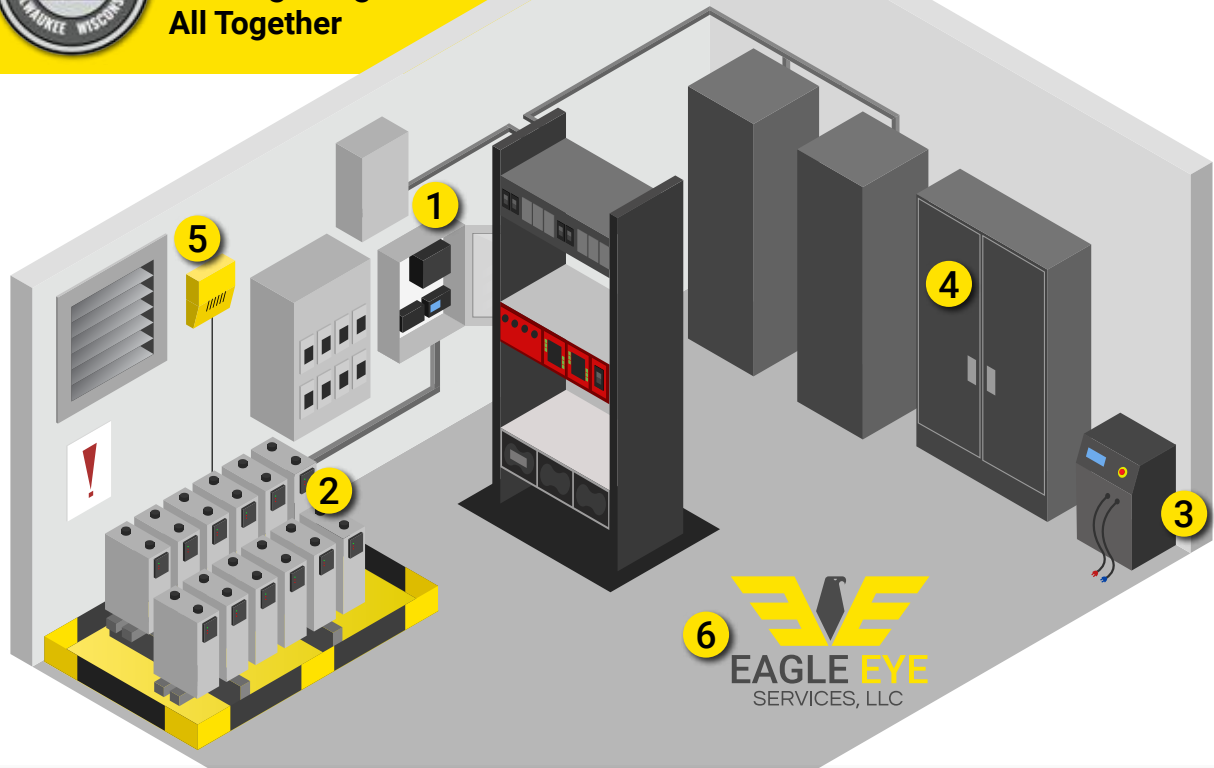
Under normal aging conditions, batteries will always lose capacity over their anticipated lifespan. While Ohmic testing will identify individual cells that are failing, a discharge test is the only way to measure the actual remaining capacity of the battery with respect to its original installed capacity – and whether or not it is capable of supporting the intended load and timeframe.

**Contact Eagle Eye Services to schedule your next discharge test.**





**World-Class Battery  
Training Brings It  
All Together**



## 6 EAGLE EYE DIVISIONS

### 1 Battery Monitoring

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

### 2 Stationary Power

- Batteries (VLA, VRLA, NiCad & LiFePo4)
- Chargers / Rectifiers
- DC Power Systems
- Inverter Systems
- Small Cell Systems
- Enclosures
- Battery Racking
- Spill Containment Systems
- Battery Accessories

### 3 Load Banks

#### DC Load Banks

- Smart Constant Current (DC)
- Non-Constant Current (DC)

#### AC Load Banks

- Resistive Single Phase (AC)
- Resistive Three Phase (AC)
- Resistive-Reactive (AC)
- Rack Mount (AC)

### 4 Portable Testers

- Battery Testing Kits
- Digital Hydrometers
- Ground Fault Locators
- Cell Discharger, Charger & Activator
- Clamp-On Ground Resistance Tester
- Digital Ground Resistance Tester Kit

### 5 Gas & Ventilation

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

### 6 Services

- Battery System Full Turn-Key Solutions
- Preventative Maintenance Programs
- Battery Monitoring Services
- Capacity/Discharge Testing
- Site Health Checkup
- IEEE & NERC Compliance
- Battery Recycling & Disposal

## INVENTORY

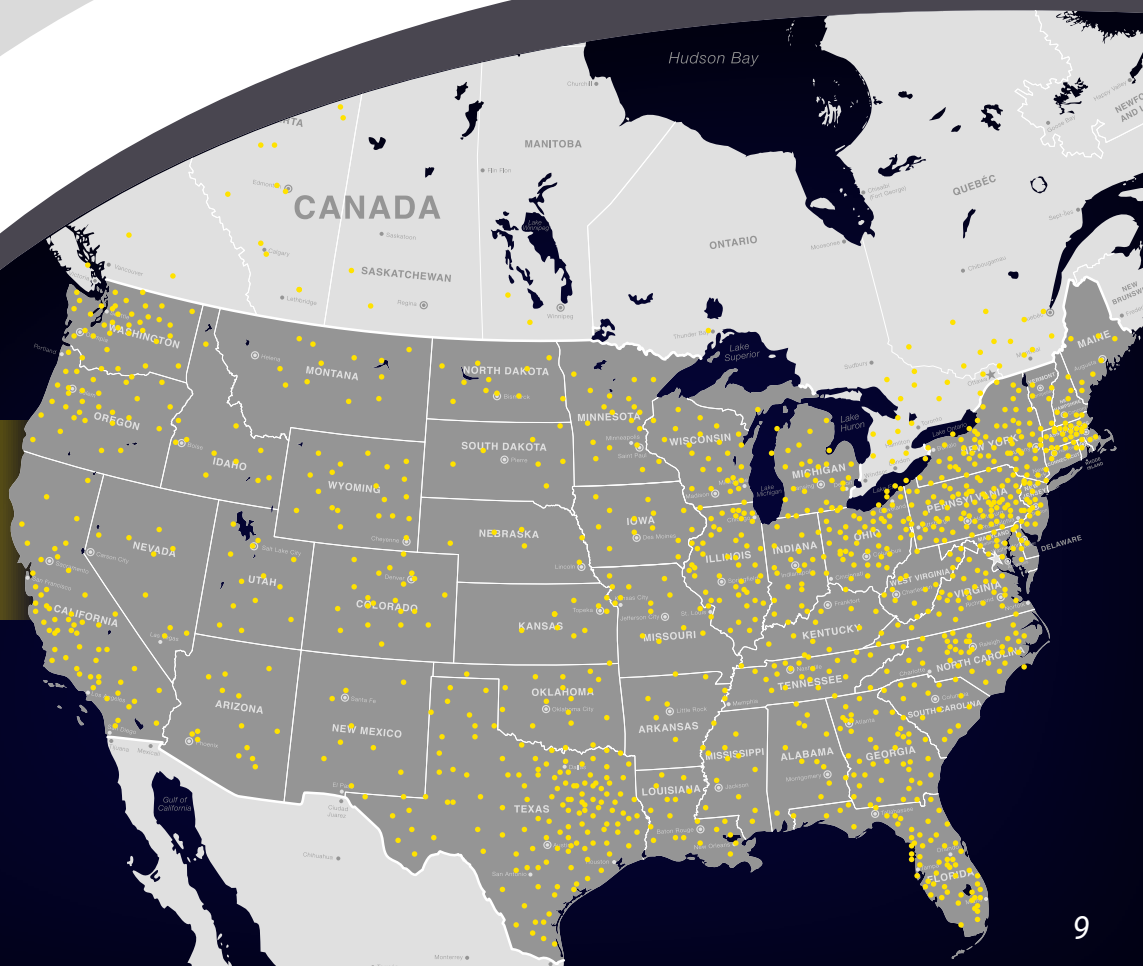
*Millions of Dollars of Inventory,  
Ready to Ship to Strategic US and  
International Locations!*



Eagle Eye has provided Critical Power Solutions, Education and Services to industry-leading brands in over 80 countries worldwide...and counting!



Including thousands of customers throughout the U.S. and North America.





**EAGLE EYE**  
POWER SOLUTIONS

# CONTENT

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28	ACCESSORIES

# BATTERY MONITORING

## Technologies

- Battery Monitoring for NERC Compliance
- Battery Monitoring Systems for All Applications
  - ◊ Cell Voltage (1.2V through 16V nominal)
  - ◊ Cell Resistance
  - ◊ Connection & Terminal Resistance
  - ◊ Float Current
  - ◊ Cell Negative Post Temperature
  - ◊ Cell Ripple Voltage
  - ◊ Battery Discharge Performance
  - ◊ Electrolyte Levels
  - ◊ Ground Faults
  - ◊ Hydrogen Gas

## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers
- Cable TV
- Generator Starting
- Nuclear
- General Purpose
- Motive Power
- And More

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)



The **VIGILANT™** is an all-in-one battery monitoring solution designed to meet NERC Standard PRC-005-6 Table 1-4(f) "Exclusions for Protection System Station DC Supply Monitoring Devices and Systems" with no maximum maintenance interval. This table outlines that "no periodic maintenance" is required if monitoring and alarming occurs for the following battery parameters: string voltage & current, cell/unit voltage, cell/connection resistance, cell & ambient temperature, electrolyte level, and ground fault status. Implementing 24/7/365 battery monitoring alleviates the need for regularly scheduled, on-site visits to meet NERC compliance. A complete picture of battery health is available remotely for each system outfitted with monitoring; this includes alarming, reporting, and trending.



# BATTERY MONITORING

## Technologies

- Electrolyte Level Monitoring
- Voltage & Ground Fault Monitoring
- Temperature / Thermal Runaway Monitor

## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers
- Cable TV
- Generator Starting
- Nuclear
- General Purpose
- Petrochemical
- Food & Beverage
- And More

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)



ELM-Series



VGM-Series



BTM-Series

Eagle Eye offers a complete line of battery monitoring solutions to include, but not limited to: battery monitoring for all applications, battery monitoring for NERC compliance, electrolyte level monitoring, voltage & ground monitoring, temperature / thermal runaway monitoring and more! Contact us today to discuss having Eagle Eye install a battery monitor on your battery system!

# DC LOAD BANKS

## Benefits

- Models sized to your voltage and current requirements
- Save time with per-cell performance monitoring kits
- Improve personnel and equipment safety with programmable automatic safety shutdown
- Complete performance data with a polished professional report
- Multi-task with peace of mind with our audible alarming and auto shutdown features

## Eagle Eye Advantages

- LIVE support and product training by phone, email, web conferencing, and in-person - FREE for life\*
- Full-service repairs, maintenance, cleaning, and calibrations here in the USA at Eagle Eye facilities
- Many models available in-stock and short lead times
- Eagle Eye works with clients on custom models and options. Contact us today to discuss your needs.



## Education

Further your professional capabilities with our hands-on and online training courses for discharge testing & analysis, DC power systems, and compliance courses. Contact Eagle Eye today to learn more about related DC load bank courses.

**\*fees may apply for on-site training & support**

Eagle Eye understands our customers' application needs are unique to their organization and industry, which is why we've designed our load bank lines to specifically match up to your specific voltage and current testing needs. From our smart units to our basic economy units, Eagle Eye puts the focus on your market needs. Contact us today and find out why Eagle Eye is the gold standard for DC load banks.

## Technologies

- Digital AC Resistive Single Phase Load Banks, 10-200 kW, 120, 240 or 120/240 VAC
- Digital AC Portable Resistive Three-Phase Load Banks
- 10-1,000 kW, 208, 240, 480 or 600 VAC
- Digital AC Outdoor Resistive Load Banks 10-6,000 kW, 208, 240, 480 or 600 VAC (others available)
- Analog AC Compact Portable Load Banks for 60 & 400 Hz power systems
- Digital AC Reactive Load Banks 37.5 kVAR – 2,500 kVAR(C), 208, 240, 480 or 600 VAC (others available)
- Digital AC Resistive / Reactive Load Banks 37.5 kVA – 6,250 kVA, 208, 240, 480 or 600 VAC three phase (other available)
- AC Rack Mount Server Load Banks, Standard 7U or 9U, 4-20kW, 120, 208 or 240VAC

## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers
- Cable TV
- Generator Testing
- Nuclear
- General Purpose
- Petrochemical
- Food & Beverage
- And More

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)



*Resistive Reactive*



*Resistive Three Phase*



*Outdoor Resistive*

Eagle Eye's LB-Series AC product line includes multiple series of load banks, each designed for different load testing applications. DC load banks are used to test the capacity of battery systems for acceptance testing. The LB-Series DC load banks are available in a variety of configurations, with over 100 load testing models available. Options include wireless or wired cell voltage monitoring during a discharge test, software solutions for discharge test recording and reporting, as well as custom discharge current and voltage configurations.

# PORTABLE TESTERS



*IBEX-Ultra Kit*



*SG-Ultra*



*Portable Kits*

## Technologies

- Battery Resistance Testers
- Testing Kits for IEEE & NERC Compliance
- Digital Hydrometers

## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers
- Cable TV
- Generator Starting
- Nuclear
- General Purpose
- Petrochemical
- Food & Beverage
- Motive Power
- And More

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)

Eagle Eye offers a full line of portable testing solutions to include, but not limited to: battery resistance testers, battery voltmeters, battery ground fault locators, clamp-on ground resistance testers, digital ground resistance testers, digital hydrometers, testing kits for IEEE & NERC compliance, battery jar/cell charger, discharger, & activator and more. Please contact Eagle Eye if you'd like to demo a portable tester at no cost!



# PORTABLE TESTERS

## Technologies

- Battery Ground Fault Locators
- Clamp-On Ground Resistance Tester
- Digital Ground Resistance Tester
- Battery Jar/Cell Charger, Discharger & Activator
- Battery Voltmeters

## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers
- Cable TV
- Generator Starting
- Nuclear
- General Purpose
- Petrochemical
- Food & Beverage
- Motive Power
- And More

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)



GFL-1000



DLV-Pro Kit



LB-1000

Eagle Eye offers a full line of portable testing solutions to include, but not limited to: battery resistance testers, battery voltmeters, battery ground fault locators, clamp-on ground resistance testers, digital ground resistance testers, digital hydrometers, testing kits for IEEE & NERC compliance, battery jar/cell charger, discharger, & activator and more. Please contact Eagle Eye if you'd like to demo a portable tester at no cost!

# **HYDROGEN GAS DETECTION**

## **Features**

### **All HGD Models**

- Detectors to Monitor Hydrogen Gas
- Automatic Operation and Continuous 24/7 Monitoring
- Alarms via Dry Contact Relays for 1% and 2% Hydrogen by Volume
- Long Lifespan for Reliable Monitoring
- High Sensitivity and Stability
- Inexpensive Protection for Equipment and Personnel
- Save Insurance Costs - Reduce Insurance Premiums When Placed in Battery Charging Rooms

### **HGD-3000**

- Sensitive Photoelectric Smoke Detector Module
- Internal Thermostat for Automatic Exhaust Fan Control at 40°C (104°F) with  $\pm 5^\circ$  Adjustable Range
- Loss of Power Alarm
- Available with Optional Intrusion Alarm (HGD-3000i)

### **HGD-2000is**

- Designed to be Intrinsically Safe
- Meets Requirements for all Class 1 areas (Division 1 & 2)
- Meets Requirements for NFPA - Zone 0 AEx ma ia IIC T6



*HGD-3000*

*HGD-2000*

*HGD-2000is*

## **Applications**

- Utilities and Power Plants
- UPS Power Systems
- Diesel and Other IC Engines
- Construction and Maintenance Facilities
- Fire Department
- Motive Power
- Fuel Cell Test Stations
- Nuclear Waste Reforming
- Hydrogen Refueling Stations
- Battery Suppliers
- Battery Charging Rooms
- Golf Cart

## **Services & Education**

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)

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

## Features

### VS-24

- Compliance with IEEE Std. 450
- Compliance with National Fire Protection Agency (NFPA) Article 64
- Compliance with Uniform Building Code (UBC) Section 6400
- Automatic Operation and Continuous 24/7 Monitoring
- High Sensitivity and Stability
- Long Life-Span for Reliable Monitoring
- Inexpensive Protection for Equipment and Personnel
- Two-Year Warranty

### VS-12

- Compliant with NEC 501, Class I Division II Group B
- 850 CFM Wall Mounted Fan
- Powered Louvers
- Designed for Use with Explosive or Toxic Gas Detectors (our HGD-Series)
- LED Status Display
- Motorized Louvers Lock When Open or Closed
- Simple Installation with Sliding Collar to Fit Different Wall Thicknesses
- Long Operating Life
- Available in 120 VAC and 24 or 48 VDC Versions
- Insurance Premium Reduction May Be Realized

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)

## Applications

- Utilities and Power Plants
- UPS Power Systems
- Diesel and Other IC Engines
- Construction and Maintenance Facilities
- Fire Department
- Motive Power
- Fuel Cell Test Stations
- Nuclear Waste Reforming
- Hydrogen Refueling Stations
- Battery Suppliers
- Battery Charging Rooms
- Golf Cart
- Landfill



VS-12



VS-24

Eagle Eye's VS-Series features two different styles of exhaust fan ventilation systems, designed to protect battery charging rooms and other locations where motive and stationary batteries are present. VS-Series fans can also be used where there is a possibility of other flammable or toxic gases accumulating in confined spaces. A larger 24 x 24 inch model is accompanied by a smaller 12 x 12 inch model; both models come available in a variety of power options. Features include mechanical louvers and integration to Eagle Eye's HGD-Series hydrogen gas detectors for automatic operation.

# BATTERIES

## Technologies

- Vented Lead Acid (VLA)
- Valve Regulated Lead-Acid (VRLA)
- Nickel Cadmium (NiCad)
- ZINC
- Lithium Iron Phosphate (LiFePO4)

## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers / Cable TV
- Generating Starting
- Nuclear
- General Purpose
- And More

## Services

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs

## Education Topics Include

- Introduction to Batteries & Battery Maintenance
- NERC Battery Maintenance for Utilities
- NERC PRC-005-6 Battery Operation & Maintenance Compliance
- Discharge Testing
- Battery Analytics
- And More (See Pg 4)



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

Why not contact EEPS for  
expert help! 1-877-805-3377

Eagle Eye Power Solutions (EEPS) provides a full line of Battery Technologies (VLA, VRLA, NiCad, & LiFePO4) to include, but not limited to: Eagle Eye, Alcad, C&D, East Penn / DEKA, EnerSys, Hoppecke, Leoch, Northstar, Saft and more! Our robust offering ensures we can meet or exceed any application requirement. When you add our Industry Experts, Complete EF&I Services, Full Critical Power Solutions offering, Stocking Programs, Education (EEU) and our proven Eagle Eye Experience (EEE) – you can rest assured you are working with the right partner.



## Features

- High Energy Efficiency of >93% at 240VAC and >91% at 120VAC
- 5-Year Standard Warranty
- 700,000 Hour Estimated Runtime
- Maintenance Free
- Hot Swappable iPMS (Intelligent Power Module)
- Modular Design Allows for Future Load and Scalability
- Easy Installation with Universal AC Input & Reduced Weight
- Low DC Output Ripple – Battery Eliminator Standard
- AC/DC Powered UIM for Continued Operation Without AC
- Heavy Duty Steel Chassis
- High Quality Conformal Coated Circuit Boards for Moisture Protection
- Convection Cooled with Wide -40 to -158 F Operating Range
- Battery Temperature Compensation with Controlled Limits
- Alarms Can Be Individually Enabled/Disabled, Assigned a Delay
- SNMP Alarming and NTP Date/Time Sync Via Ethernet
- UL 1012 and cUL/SCA Equivalents (Pending)
- CE Certified
- Web-Based Software

## Applications

- 12V With Ranges 1-20 VDC, 0-80ADC
- 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
- More Chargers Available for Nominal DC Voltages and Amperages Not Listed

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)



Eagle Eye Power Solutions (EEPS) provides a full line of float battery chargers, 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). 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.

# RACKING

## Features

- Standard - Single, Two, Three & Four Step & Tier Configurations
- Certified Earthquake-Proof Battery Racks
- Customized Racking
- Easy and Quick Assembly
- Acid Proof Protection
- High Quality

## Applications

- All Stationary Battery Racking Applications
- Power Plants w/ Shake Test Requirements
- Military Applications
- Off-Shore Installations
- Custom Applications
- And More

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)



EEI Certification



Eagle Eye's battery racks have been designed for all types of stationary batteries, for both standard and seismic applications. In designing these easy-to-use racks, we have paid special attention to strength, flexibility, acid-proof protection and more!

In addition, our racking is easy to assemble and disassemble with simple screws, plates, stringers and supports.

# SPILL CONTAINMENT

## Features

- UL Listed Spill Containment System
- System is Lightweight and Easy to Assemble for a Single User
- Retrofit to Existing, Pre-Installed Battery Systems
- PVC Components Have LOL Flame Rating of 28 or Higher, Meets UL Standard 2436
- PVC Components Provide a Higher Flexibility Than Steel Components
- ¼" Thick, 4" Tall PVC as Required in National Fire Code
- Pillows are Highly Durable, Flame Retardant Material
- Pillows will Absorb and Neutralize Battery Electrolyte
- Pillows Indicate Contact with Acid by Turning from Bright Yellow to Bright Red
- 1/16" Thick Pillow Material is Tear and Puncture-Resistant
- Pillow Sizes Available 12" x 12" and 6" x 24" for Optimal Spill Coverage

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- **Eagle Eye University (EEU)**

## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers / Cable TV
- Generating Starting
- Nuclear
- General Purpose
- And More



Eagle Eye Power Solutions (EEPS) provides a full line of SCS-Series Spill Containment Solutions designed specifically for standby power applications. Spill containment is required for lead acid battery systems, enforced by fire regulations on the federal and state level. The SCS-Series utilizes UL-recognized, flame retardant pillows, which are available in several sizes. The PVC frame components have an LOL flame rating of 28 or higher. All components of the SCS were designed to be installed with new battery systems or retrofitted to existing battery systems. Installation is straightforward and easy for all types of battery systems.

# DC POWER SYSTEMS



*Calidad 1U Power Shelf*



*Calidad 2U Power Shelf*



*Integra Power Shelf*



*Cambia 1U Power Shelf*

## Features

- 1RU to 2RU Models for Compact Installations
- Scalable for Future Load Increases
- High Temperature Operating Range
- Configurable and Built-In Distribution Options
- Hot-Swappable Rectifier Modules
- High Efficiency, 96% Typical
- Modular Shelf Stacking to Meet Users' Exact Power Requirements
- Up to 9 kW of Power
- 3 kw Output Per Rectifier in Compact 1U Power Shelf
- N+1 Redundancy
- Rear-Access Wiring for AC Input, DC Output, Alarms & Communication

## Applications

- Communications
- Telecom Power
- Industrial Power
- Medical Power
- Customer Power
- Embedded Power Systems
- High Efficiency Power Systems
- Switch Mode Power Supply
- Green Power

## Services & Education

- Complete EF&I
- Turnkey Installations
- Battery Removal
- IEEE & NERC PM Programs
- Capacity / Load Testing
- Battery Room Health Check-Up
- Customer Stocking Programs
- Eagle Eye University (EEU)

Eagle Eye's high-efficiency DC power systems for telecom and network applications offer flexibility and configurability. Our modular systems have wide operating temperature and input voltage range to offer many available variations.

The number of rectifier modules and the size of load breakers and battery breakers in this power supply are all configurable. Eagle Eye's power shelves are configured with our 96% efficient modules to provide as much power as needed.



## Features

- **Twin Sine Innovation (TSI)** - Builds AC power systems with no single point of failure. TSI allows a truly redundant, high efficiency, high availability, full scalability and easy handling. It meets the latest power system requirements of the IT, telecommunications and industrial sectors.
- **Enhanced Conversion Innovation (ECI)** - Combines three high-efficiency energy converters and an energy buffer within a single module, offering a vast range of power conversion configurations for critical systems, with up to 96% (AC/AC) and 94% (DC/DC & AC/DC) efficiency.

## Applications

- Telecom Inverters
- Telecom UPS
- Industrial Inverters
- Industrial Modular UPS
- Rail Solutions
- Power Utility Solutions
- No-Break Industrial Solutions
- Data Centers
- And More

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*Bravo Module*



*Media 2i Inverter*



*BPC Module Inverter*

Eagle Eye's inverter series supports the volume of AC loads in your Telecom Network and provides even greater security to your network. Whatever the output power range (from 500VA to 225kVA), whatever your DC input voltage (24, 48, 60 VDC), Eagle Eye's modular inverter systems will give you the security you need without losing the efficiency and pure power your installation requires.

# SMALL CELL SYSTEMS



Portero 13A



Portero 30A



Portero 37A

## Features

- Wall, Pole and Tower Mountable
- Discreet Appearance
- Easy to Install & Operate (for High Volume Deployments)
- Power Supply with Built-In DC Battery Backup Options
- Convection Cooling Type (No Fan)
- Battery Charger and Monitor
- Built-In Status and Alarming
- Dry Contact Alarms
- IP55 Grade

## Applications

- Expansion of LTE
- Growing Demand for Data Centers
- Improve In-Building Coverage
- Extend Network
- Handle Data and Voice Capacity & Traffic
- Increase Capacity in Hot Spot
- Fill Area Not Covered by a Macro Network
- High Power Requirements (Indoor & Outdoor)
- And More

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Eagle Eye's SC-Series small cell power systems provide flexible configurations for indoor and outdoor DAS and small cell 5G/4G/LTE applications. They are equipped with full features and options, including battery backup with dry contact alarms. With more than 300,000 systems deployed, our small cell systems are designed to withstand all types of weather conditions and harsh environments, for reliable power anywhere on the planet.

## Features

- **.090 (ENC-1000) or .125 (ENC-2000) Aircraft Grade Aluminum:** Outstanding corrosion resistance
- **NEMA Protection:** This enclosure protects against rain, sleet, snow, splashing water and damage from external ice formation.
- **Stainless Steel Hardware:** We choose the highest quality materials to produce our enclosures. Type 304 stainless steel hardware will not rust in the field.
- **GR487 Powder Coat:** Enclosures are powder-coated and tested to the Telcordia GR487 spec for telecom enclosures.
- **Power:** Pre-wired 20-Amp receptacles are a standard feature.
- **Numbered Adjustable Equipment Racks:** 19" or 23"
- **Solar Shield Roof:** Includes a double-wall roof to reduce the radiant heat and internal cooling requirements of the enclosure.
- **Ground Terminal Strip:** 7 position aluminum strip
- **Locking:** Extremely secure, strong and impermeable. Lockable handles and hinges are made from Type 304 steel.



## Applications

- Utility
- Telecom
- UPS
- Renewable Energy
- Data Centers / Cable TV
- Generator Starting
- Nuclear
- General Purpose
- And More

## Services & Education

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Eagle Eye's battery enclosures are designed to protect equipment in the harshest of environments. Weatherproof pad and pole mount enclosures and telecom cabinets are ideal for housing rack-mounted equipment requiring environmental protection. Constructed to meet high-quality standards, including NEMA protection. Construction materials include .125 aircraft grade aluminum, stainless steel hardware, GR487 powder coat, and solar shield roof. Models available in several colors.

# BATTERY ROOM ACCESSORIES



*Cleaning Supplies*



*Signage*



*Toolkits*

## Battery Room Accessories

- Battery Cleaning & Neutralizing Washes
- Acid Absorber and Neutralizer
- Battery Wipes
- Battery Spill Kits
- Battery Safety Kit
- Battery Cleanup Kit
- Battery Accessory Tools
- Battery Room Signage
- Insulated Battery Toolkits

## Applications

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## Services & Education

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Eagle Eye Power Solutions (EEPS) provides a full line of battery room accessories to include, but not limited to: Battery Cleaning & Neutralizing Kits, Acid Absorber and Neutralizer, Battery Wipes, Battery Spill Kits, Battery Safety Kits, Battery Cleanup Kits, Battery Accessory Tools, Insulated Battery Toolkits, Battery Room Signage and More! As a full critical power solutions provider, Eagle Eye Power Solutions is here to support all your DC power education, solutions, and service needs.





## NOTES

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