High-quality health care operations require high-quality power. Outages of a few seconds can compromise patient care as well as damage sensitive and expensive medical equipment. Health care IT systems need well-planned backup power systems to ensure full functionality.

Around-the-clock reliable power

Uptime and compliance solutions

As a single-source provider, Eaton can help your facility meet and exceed all normal and emergency power supply system requirements, including:

• Maintenance of electrical distribution system equipment in accordance with manufacturers’ or industry standards (NFPA 70E®)
• Specifying personal protective equipment (PPE) and electrical panel labeling (OSHA and NFPA 70E)
• Automated emergency power supply systems (EPSS) reports meeting The Joint Commission requirements
• Service of existing uninterruptible power system (UPS) batteries
• Solving power quality concerns including:
  • Monitoring circuit loading
  • Identifying power quality problems
  • Detecting and recording high-speed transients
Eaton recommendations

Reduce the incidence of electrical equipment failure to as close to zero as possible

Eaton offers extensive products and solutions for the health care market. With minimal downtime, our team can repair or replace key components before they fail, extending the useful life of your facility’s electrical system.

Cohesive electrical/power distribution architecture

A thorough audit and documentation of the existing system will help to identify possible issues and areas for improvement before a crisis occurs.

Full coordination studies

When power issues occur, protective device coordination is a key element in ensuring that the system reacts appropriately; if coordination is not set appropriately, a small issue can become a major outage.

Adequately sized and redundant backup generation assets

Ensuring that an appropriate amount of electrical power is available in case of a utility failure is key to true power reliability.

Eaton Pow-R-Line 3FQS fusible panelboard

The Pow-R-Line 3FQS simplifies selective coordination in a fully fused system by using published fuse ampacity ratio tables. The 1–100A branch disconnect fuse range enables closely matching fuse ampacity with UPS loads.

Oversized branch circuit switches, with fuses sized for the existing load, can be installed to allow for future expansion with larger fuses. This can be completed as long as the conductors are adequate for the increased load.

Automated emergency power supply system (EPSS) testing scheme

Automated testing systems are an effective measure of a system’s ability to react efficiently. By automating, burdens of compliance reporting requirements are eased.

Regular proactive and preventative maintenance on the entire electrical distribution system

Selecting the right balance for critical maintenance in a health care facility is extremely important. Having the necessary system visibility to allocate where and when your maintenance budget is being spent offers significant advantages to the facility—especially if based on historical electrical distribution.

Paralleling switchgear

Managing the critical transitions from utility company power to an on-site generator and back again, paralleling switchgear protects vital health care facility functions from extended power disruptions should utility power be interrupted.

Uninterruptible power system (UPS)

When experiencing a utility power outage, a healthy UPS battery is imperative. Eaton’s industry-leading Power Xpert® 9395 UPS goes further to minimize downtime than any other on the market.

In lieu of trickle charging, a process used by many UPSs to ensure that batteries are fully charged, Eaton uses advanced battery management (ABM) technology.

Unlike trickle charging, which has the potential to reduce a battery’s service life by as much as 50 percent, ABM uses a sensing circuitry and an innovative three-stage charging technique to significantly extend battery service life and optimize recharge time.

Operating at 99 percent efficiency, the 9395 UPS can pay for itself in three to five years when replacing your existing system. In the case of a new installation, the additional revenue collected from the decrease in energy consumption allows payback to be measured in mere weeks or months.

CASE STUDY

Appalachian Regional Healthcare (ARH)—Lexington, Kentucky

• Problem: a failing uninterruptible power system (UPS)
• Solution: Eaton 9390 UPS
• Savings: operating at less than 50 percent load, the 9390 provides a higher efficiency level than most traditional UPS systems, reducing energy costs. The 9390 also produces less heat, which in turn lowers cooling costs.

Enhance the energy efficiency of your health care facility. Contact Eaton today for an initial assessment.

1-800-525-2000 or www.eaton.com/healthcare

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Maintenance

Electrical systems maintenance is integral in the prevention of equipment deterioration. Failed equipment can weaken system performance, causing power abnormalities. Should a full power outage occur, the ability to trace the events that led to the failure is key in protecting against liability.

Eaton’s support services organization can help you analyze, predict and maintain a reliable supply of electrical power that meets the power needs of your facility.

Reliable solutions for your facility

Dependable, high-quality work and equipment is part of Eaton’s DNA. Our mission-critical reliability helps prevent adverse events, shows proof of compliance and saves you from additional inspection testing and training to meet stringent codes.

An additional benefit Eaton provides is confidence that our components will work seamlessly together to support your hospital’s mission-critical power supply requirements.