

Product brochure

Prefabricated UPS solutions

Cost effective, tailor made
solutions for quick deployments



EATON

Powering Business Worldwide

Eaton's suite of prefabricated UPS solutions expands your options for backup power.

Whether you need an indoor or outdoor solution, small or large system, Eaton's prefabricated UPS solutions can be tailored to fit just about any customer need. The best part about these solutions is that they are quick and easy to deploy, reduce installation costs, and come pretested to ensure a quality solution.

Eaton's engineering team works hand in hand with customers to design these solutions to meet strict technical requirements. Solutions

combine various equipment, such as the UPS, batteries, and switchgear and can include controls, HVAC and other options depending on the customer's needs and the configuration selected. Since these solutions are pre-configured and factory tested as a system, customers reduce their overall project risk and ensure consistent, repeatable designs are deployed. This allows customers to scale through a multi-phased project and/or a multi-location infrastructure.

These solutions come in three configurations:



1. Connected

- UPS and switchgear with up to four connected UPS modules per system
- Up to 5000 amps
- Fully customizable
- Used in gray space of traditionally constructed buildings and in custom containers

2. Centralized

- Can include UPS, batteries and switchboard on a skid
- Used in gray space of traditionally constructed buildings and warehouse environments, but can also be used in outdoor applications

3. Containerized

- Can include: UPS, batteries, switchgear, HVAC units, fire and safety equipment
- Accommodates all UPS ratings
- Used in warehouse environments, disaster situations, outdoors and more—a critical power system in a box

Connected

The Connected configuration is a high quality, tested design that directly connects UPS modules, switchgear, static switches, controls and any monitoring or human machine interface (HMI) components, forming a single continuous system. It's ideal for permanent medium, large, hyperscale and multi-tenant data centers that are building new facilities, expanding or retrofitting existing facilities or problem solving to achieve optimal operations.

The Connected system gets you to market faster in two ways. First, submittals, purchasing, engineering and system-level test procedures are completed before delivery. And second, direct bus connections simplify installation by greatly reducing the need for pipe and wire. Besides the savings on materials, this also means it can be installed in a third of the time of a conventional component-based system.

Benefits include:

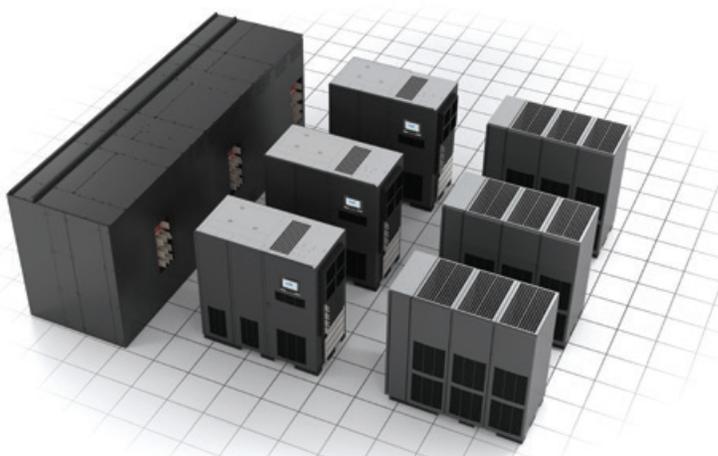
- Customization options to meet your power needs
- Faster time to market
- Installation saving \$50,000 to \$75,000 per UPS module deployed
- Reduced risk of errors that can happen in installation, resulting in unplanned downtime
- A continuous, integrated power quality system for high availability requirements with built-in communication
- Factory testing of the connected solution as an integrated system

Success story: Faster installation needed

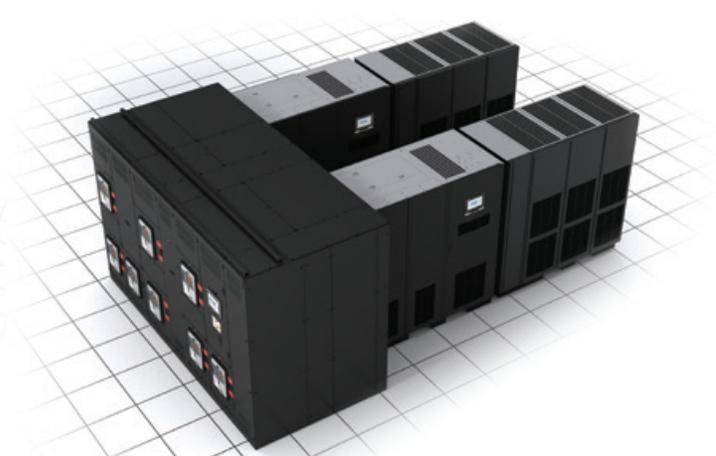
Challenge: A large e-business company was deploying multi-module systems separately and experiencing delays due to long installation times.

Solution: We offered a way to speed up installation and ensure consistency—a prefabricated solution that arrived pre-wired and pre-tested for fast deployment. We identified a system design that would work and began putting it together.

Result: The company started with one system, but after installation ordered 11 more because it did what we said it would—cut deployment time.



Connected configuration with three UPS modules in separated position before installation is completed



Connected configuration with two UPS modules after installation is completed

Centralized



The Centralized configuration incorporates a UPS, switchboard, batteries and all interconnections on a skid platform for fast deployment. Available in various UPS sizes and battery types, it allows you to modularly add capacity as you need it, working well in all sizes of data centers. Similar to the Connected system, it can be used when building new facilities, expanding or retrofitting existing facilities or problem solving to achieve optimal operations.

Benefits include:

- A space-saving design, giving you more flexibility
- Arriving pre-wired and pre-tested as one piece, reducing installation time by 75 percent
- Adding capacity with a second skid to parallel the system.
- Expanding your electrical infrastructure as your critical load grows
- Saving \$50,000 to \$75,000 per UPS module deployed
- Use for both indoor and outdoor applications



Did you know?

You can also integrate advanced management controls with your prefabricated power solution. For example, our NOAA weather monitoring module works with your HMI and SCADA system to monitor weather in your area every 15 minutes. When user-selected events are detected—temperature, humidity, barometric pressure, etc.—the system takes pre-programmed actions to make sure your data center is protected from any type of weather threat. Actions can range from shifting your UPS into a power-saving mode like Eaton's Energy Saver System so you can operate at 99 percent efficiency to moving the UPS into a high alert, double-conversion state.

Containerized

This containerized, modular solution, aka Eaton's modular power assembly, is a fully-enclosed and integrated system with a UPS, switchgear, batteries, HVAC units and all associated fire and safety equipment inside. It can be deployed quickly to expand existing power capacity, incorporated into greenfield modular facilities or used in disaster recovery situations.

Using an Eaton UPS system, customers can select from a variety of energy storage options, including VRLA batteries, lithium ion batteries and flywheel options, making these modular power assemblies the most versatile on the market. Installation requires only a utility input and load connection, making deployments quick and easy. Whether installed temporarily or permanently, these self-contained modular power assemblies also include internal HVAC environmental controls allowing these containers to be used for indoor or outdoor applications.

Benefits include:

- Increased speed to market
- Better cost control and quality with factory-based production
- Repeatability
- Reduced footprint
- Reduced on-site installation complexity
- Increased speed of repair and reduced downtime with modularized components
- Fully factory tested and commissioned
- Lower operating costs



Modular Power Assemblies can ship on the back of a flatbed truck



Containers include the UPS and batteries on one wall and switchgear on the other

Software, monitoring and service

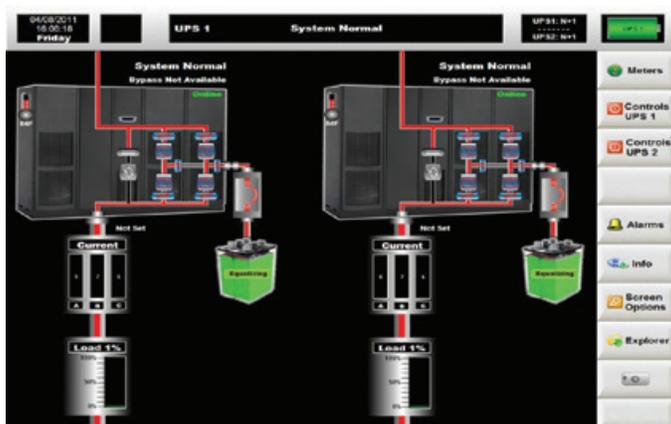
The Brightlayer Data Centers suite

A full portfolio of software applications that reliably aggregates data, monitors and manages end-to-end IT and power infrastructures, predicts maintenance and optimizes performance. From enterprise and multitenant, to hyperscale and distributed IT data centers, it delivers visibility across your network, allowing you to better control your TCO and ROI, monitor security, mitigate risk and stay resilient.



Centralized on-site monitoring

For centralized on-site monitoring and control, you can add an HMI—ranging from 10 inches in size to more than 40 inches. This level of control provides you with metering and data monitoring of more than 200 protocols; synced controls for UPSs, batteries, power distribution units and switchgear breakers based on building alarms; touch screen controls; and more.



An HMI can be added to your system and customized to meet your unique needs

Pre-deployment system testing

A unique feature of these solutions is pre-deployment testing at the factory. This involves testing all system components—UPS, batteries, power distribution, HVAC units, fire suppression, etc.—individually and as part of the larger system. It speeds up the installation process, reduces commissioning risks and time, and gives you peace of mind that you're getting a high quality, reliable system that works on day one.

Why Eaton prefabricated power solutions?

- Reduce time to UPS operation by up to 40 percent through improved lead times, reduced installation time and minimal commissioning time
- Lower TCO thanks to high levels of efficiency (99 percent) that don't expose you to unnecessary risks
- Superior control with power management software, service and an HMI
- Three configurations to meet your needs across the data center lifecycle
- Vertical integration from design to engineering to build-out

To learn more about Eaton's prefabricated power solutions, visit:
[Eaton.com/prefabups](https://www.eaton.com/prefabups)

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