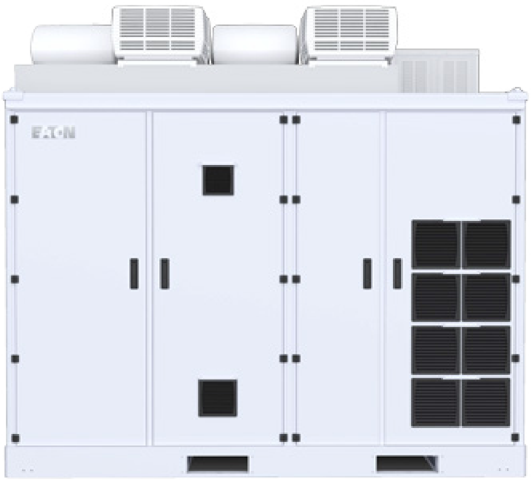
The Eaton xStorage 400

The energy storage solution for rising energy demand



The Eaton xStorage 400 is certified for outdoor use and fits in a typical parking spot.

Eaton's xStorage 400 energy storage system helps meet the rise in energy demand at commercial and industrial facilities. The need for Distributed Energy Resources (DERs) is a result of electrification and the shift to renewables. xStorage 400 helps facility owners and operators offset the cost of the rising energy demand. In addition, it can generate revenue as it acts as an asset on the local grid. Unlike expensive demand charges and electrical infrastructure upgrades, xStorage 400 offers low-cost energy when the facility needs it most.

Advances in lithium battery technology are driving costs down, making xStorage 400 an ideal solution for multiple challenges.

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Demand charge management:

A study by the National Renewable Energy Laboratory showed over 5 million commercial customers pay a demand charge of $15/kW or more per month. By providing supplemental energy during peak periods, the xStorage 400 can reduce a facility's energy costs by roughly $72,000 or more each year.

Electrical infrastructure upgrades:

Electrification, especially in the transportation industry, takes electricity demands to new levels. Most existing electrical infrastructure was not sized for this emerging trend. A bank of electric vehicle (EV) chargers at a retail facility, for example, could easily double its peak energy demand. xStorage 400 powers the facility through those new peaks without the hassle, costs and delays that come with infrastructure upgrades.

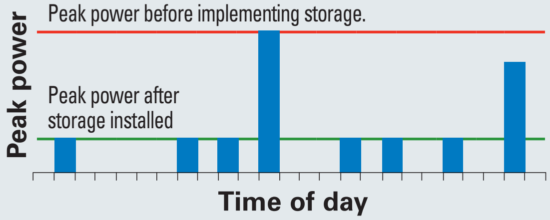
Time of use optimization:

Many utilities have higher rates during peak demand periods. Rates drop when demand subsides. xStorage 400 discharges during peak periods, providing supplemental energy at no cost. When rates drop, the xStorage 400 recharges on low-cost energy to prepare for the next peak.

Application spotlight: EV charging

As shown in the chart below, Eaton's xStorage 400 allows a site owner to set the green line to desired maximum power so when a peak period starts, the system provides supplemental energy, rather than pulling the entire amount from the grid. The site owner gets instant savings on utility demand charges while providing a full-power charging experience. At the same time, the EV owner gets a quick and convenient charge.

DC fast charging example profile



xStorage 400 features and benefits:

- **High-power storage battery** allows you to shave off peak demand during the day, instantly saving money on monthly utility demand charges
- **Outdoor ratings** allow the system to be consolidated in one environmentally controlled module with heating and cooling to protect the storage solution from harsh weather
- **24/7 remote monitoring service and support** continuous 24/7 service and support provide peace of mind as a service technician deploys right away when an alarm goes off for a high-level emergency
- **Enroll in energy market programs** like demand response to earn extra revenue by supporting the local grid

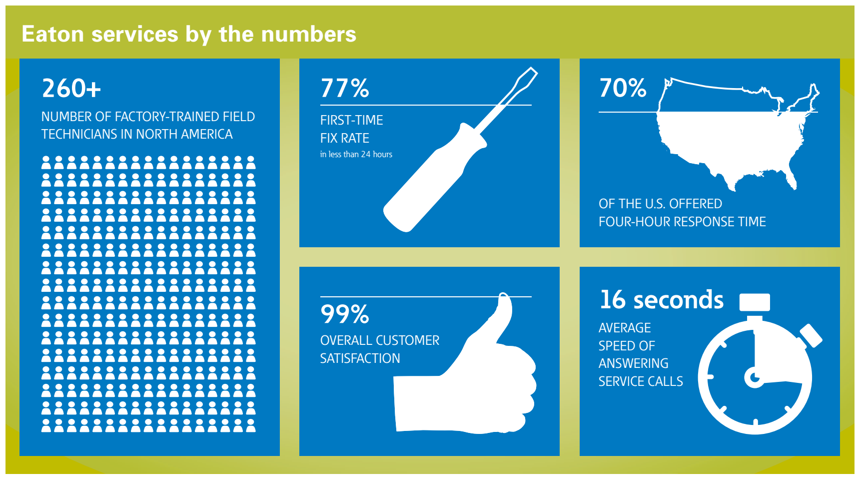
Product specifications

- **Power / Energy: 400 kW / 228 kWh**
- **Voltage: 480 V**
- **Frequency: 60 Hz**
- **Cycle rating: 1 cycle/day (3,650 cycles over 10-year life)**
- **External temperature: -30 to 50°C (122°F)**
- **Dimensions (W x D x H): 11’3” x 5’7” x 10’3”**
- **Weight: 9,518 lb.**
- **Certifications: UL 1741, 1741 SA, 9540, 9540 A, NEMA 3R**

PredictPulse® remote monitoring service:

After installation, Eaton remote monitoring service supports each xStorage 400. Part of the Brightlayer Data Centers suite, PredictPulse remote monitoring application monitors the battery storage solution from the cloud, uses algorithms to flag component degradation and alerts the dispatch center immediately if there is a system issue. One of Eaton’s 260 factory-trained field service engineers will perform routine preventive maintenance, proactively replace consumable components and respond to each emergency.

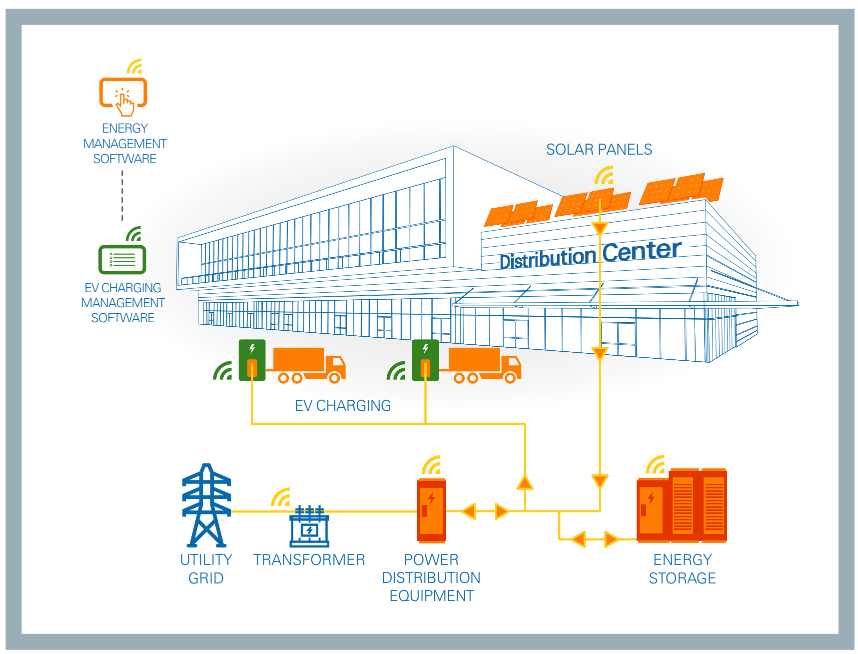
Eaton.com/PredictPulse



Eaton can manage each project from start to finish. Experience includes all aspects of project lifecycle:

- **Feasibility studies, project design, development, implementation, and operations & maintenance**
- **Intelligent control of DER/microgrids and EVCI-related systems**

As the energy transition in North America continues to evolve, Eaton remains committed to helping customers safely add more renewables, storage, and electric vehicle infrastructure to their energy mix—to become more sustainable and resilient while lowering energy costs. The Eaton xStorage 400 allows EV charging infrastructure networks, commercial building owners, and industrial facility operators to better manage and distribute peak demand to save money on energy costs, reduce their impact on electrical infrastructure, and earn revenue from grid support programs.



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