



# The Smartest Battery Choice for Resilient, Profitable Data Centers

Reduce Your Risk, Cost, Hassle — with Proven Technology.

We get it. Data center leaders and CIOs face endless demands — greater efficiency, agility and operational sustainability — while mitigating risk and lowering costs. Deka Fahrenheit is your answer. It's an advanced battery technology for conquering your biggest data center battery challenges.



# The Deka Fahrenheit Difference

Deka Fahrenheit is a long-life, high-tech battery system designed exclusively for fast-paced data centers like yours. Our system provides the most reliable and flexible power protection you need at the most competitive Total Cost of Ownership (TCO) available.

## Your Biggest Benefits:



### Best TCO for Data Centers

Slash lifetime TCO with lower upfront cost, no battery management system required, longer life and less maintenance.



### Proven Longer Life

Field testing and customer experience show an extended battery life that reduces the number of battery replacements over the life of the system.



### Environmentally Sustainable

Virtually 100% recyclable. End-of-life value and recycling helps lower cost of new batteries and ensures self-sustaining supply chain.



### Safe, Dependable

A technology known for its long history as a safe, reliable, high-performance solution — for added peace of mind.



### Flexible, Scalable

Expand and adapt as needed, without making a long-term commitment to an unproven battery technology chosen by a cabinet supplier.



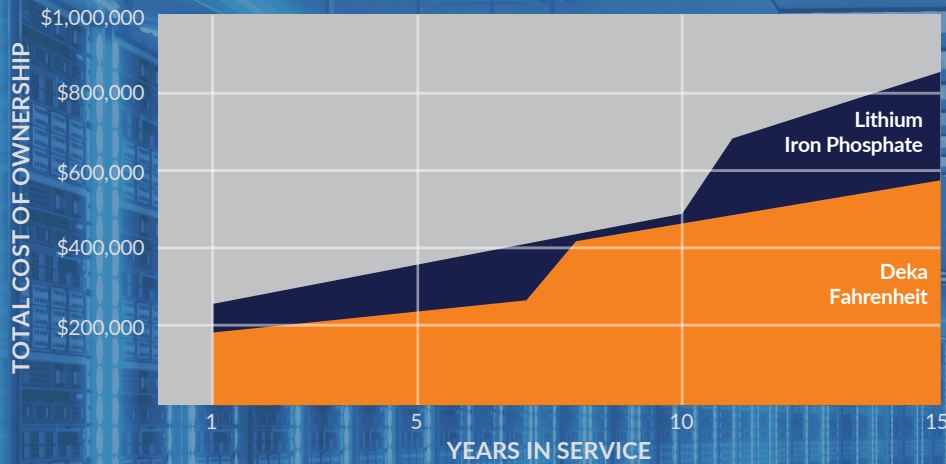
### Trusted Battery Experts

Located on over 520 acres in Lyon Station, PA, East Penn is one of the world's largest and most trusted battery manufacturers. We'll be there, for the long-term.

# Let Facts Drive Your Decision.

Balancing your data center needs isn't easy. Deka Fahrenheit simplifies your battery decision by comparing the TCO of a Deka Fahrenheit battery system to lithium iron phosphate.

## Overall TCO: Deka Fahrenheit Wins (1036.3kWb - 480VDC Battery System)



## Data Center TCO Analysis Factors 1 MW System (1036.3kWb - 480VDC Battery System)

	Lithium Iron Phosphate 10-yr Warranty	Deka Fahrenheit 7-yr Warranty
Initial System Cost	\$236,420	\$180,489
Maintenance Cost Per Battery	\$39	\$5
Replacement Cost Per Battery	\$1,750	\$525
Replacement Labor Cost Per Battery	\$25	\$40
Battery End-of-Life Value or Cost	\$91 <b>COST</b> per kwh	\$33 <b>CREDIT</b> per kwh
<b>Total Cost of Ownership (TCO)*</b>	<b>TCO = \$832,662</b>	<b>TCO = \$568,111</b>

Approximately  
\$264,551  
in Savings

\* Space calculations assume floor space costs of \$60 per ft<sup>2</sup>, and Net Present Value (NPV) of 6%. Space assumptions include 2018 NFPA855 requirements with 4' aisle. Does not include additional costs for UL9540A design changes or facility insurance for lithium iron phosphate systems. Total decommissioning costs for a 1MW Li-Ion battery based grid energy storage system is estimated at \$91,000. Source: EPRI, Recycling and Disposal of Battery-Based Grid Energy Storage Systems: A Preliminary Investigation, B. Westlake. <https://www.epri.com/#/pages/summary/00000003002006911/>

**Terms and conditions:** Nothing contained herein, including TCO costs and assumptions utilized, constitute an offer of sale. There is no warranty, express or implied, related to the accuracy of the assumptions or the costs. These assumptions include estimates related to capital and operating expenses, maintenance, product life, initial and replacement product price and labor over a 15-year period. All data subject to change without notice.



### Specifications: The High Tech Behind Deka Fahrenheit

- Advanced AGM front access design decreases maintenance, improves safety and longevity
- IPF® Technology – Optimizes capacity and reliability
- Microcat® Catalyst – Increases recombination and prevents dryout
- Sustainably designed for recyclability – End-of-life value enhances profitability
- Exclusive Thermal Management Technology System:
  - THT™ Plastic – Optimizes internal compression
  - Helios™ Additive – Lowers float current and corrosion
  - TempX™ Alloy – Inhibits corrosion

### Deka Shield Protection

Allow Deka Services to install and maintain your Deka Fahrenheit batteries and your site will receive extended warranty benefits. Deka Services provides full-service turnkey EF&I solutions across North America. Ask East Penn for details.



## Do you have the best battery system for your data center?

You can't afford downtime or extra costs. Contact East Penn for a full TCO analysis.

