## **SOLUTION BRIEF**

# Flex critical power solutions

Reliable, energy-efficient grid-to-rack power delivery for data centers

### **KEY BENEFITS**

- Safe, reliable, and scalable power delivery
- Products and systems customized to facility requirements
- Innovative technologies for the demands of Al-era compute
- Global manufacturing aligned with local power standards
- Expert field services for complex, multivendor environments

With data center energy consumption forecast to exceed 1,000 TWh by 2026<sup>1</sup>, operators must distribute power reliably and cost-effectively to hundreds, or even thousands, of server racks and the systems that support them. Al and high-performance computing (HPC) introduce heat densities and "spiky" power consumption that add unique challenges. The Flex portfolio of critical power products improves power delivery and energy efficiency from grid to rack.



The advent of 1+ megawatt racks intensifies the need to manage power distribution effectively in AI, HPC, and hybrid data center environments.

## Designed to support uninterrupted power delivery

Flow power from the utility throughout the data center efficiently with innovative, high-performance switchgear and busways engineered to meet the exacting requirements of modern data centers.





Safely manage and route power to busways for reliable distribution to data center racks, cooling systems, and other equipment.

The Flex lineup includes:

- Switchgear
- Remote power panels
- Power distribution units (PDUs)
- Packaged substations
- Distribution panelboards

Accommodate changing power needs as equipment is added, moved, or relocated in dynamic environments with flexible, scalable busway systems.

The Flex portfolio features:

- DATABAR Safe, innovative, compact busbar
- IBAR High-power busbar trunking systems
- RESINBAR Busbar engineered for outdoor use

#### **ABOUT FLEX**

Flex provides advanced manufacturing capabilities, innovative power and cooling products, and services that solve for data center power, heat, and scale challenges in the Al era. Accelerate data center infrastructure deployment worldwide with Flex.

#### Scale with modular solutions

Provide scalable power distribution and support for critical workloads in any environment with customized, modular solutions that ease complexity and significantly reduce installation time compared to traditional construction. Flex modular data center solutions include:



**Power pods/skids** – Prefabricated, self-contained, and tailored to specific requirements



**Power control assemblies** – Fully integrated and tested for safe power transfer



**Power distribution centers** – Engineered to maintain uptime, scalability, and energy efficiency



**Relay panels** - Meet or exceed industry standards for quality and performance

#### Optimize power reliability and efficiency

Protect against disruptions and runaway energy costs with real-time monitoring and load management for uninterrupted power delivery, optimal energy use, and capacity insights that support scalability.



**Energy management systems** – Automated data acquisition from devices across sites



**IMS DCIM** - Universal database interface with configurable system access



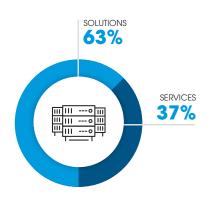
**Modular circuit monitoring systems** - Voltage detection and predictive circuit health analysis



**SCADA systems** - High-speed processing of real-time data and alarms

#### Outsource field services with confidence

As build-out accelerates and complexity increases, demand for data center power services grows. Flex provides expert installation, maintenance, and service in complex, multivendor environments where uptime is essential and the safety and protection of people and equipment are paramount. We help data center operators accelerate time to compute, lower operating costs, and extend equipment life with bespoke project management, tailored service contracts, comprehensive equipment testing, and more.



DATA CENTER POWER MARKET<sup>2</sup>

## The Flex advantage

Delivering uninterrupted power from the grid to the rack is mission-critical for data center operators. In addition, the Flex suite of power products, cooling solutions, and end-to-end services spans 80 percent of the data center, enabling customers to solve the power, heat, and scale challenges of the modern era.

Optimize grid-to-rack power delivery with critical power solutions from Flex.

Learn more

<u>Critical Power Products</u> | <u>Data Center Solutions</u>



- 1. Executive summary Electricity 2024 Analysis IEA, International Energy Agency, Electricity 2024
- 2. Data Center Power Market Report 2025-2034 | Data Center

## For more information, visit **flex.com/connect**

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