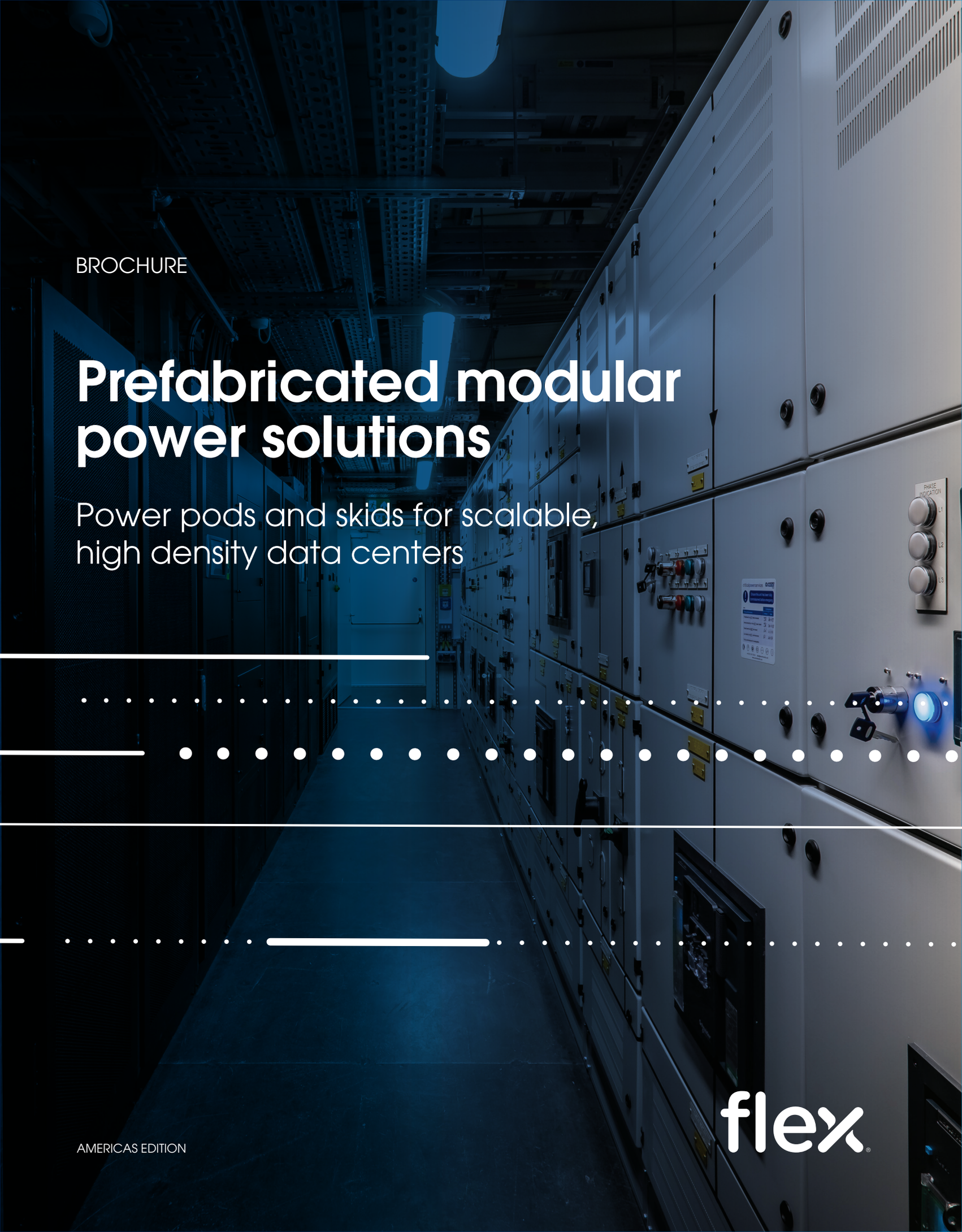


BROCHURE

Prefabricated modular power solutions

Power pods and skids for scalable, high density data centers

AMERICAS EDITION

flex

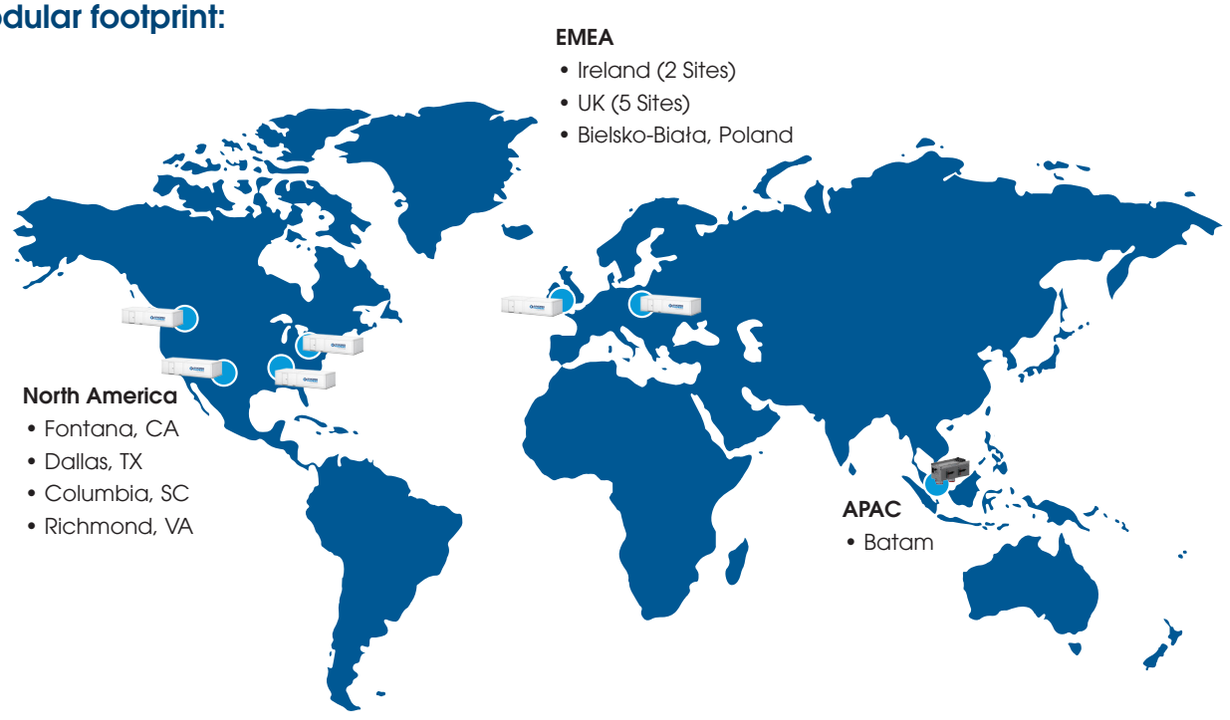
Why modular?

As data center power requirements increase and deployment timelines compress, traditional site-built electrical rooms are becoming difficult to scale and deliver consistently. Prefabricated modular power solutions mitigate variability with factory integrated, repeatable power blocks that enable faster deployment, more predictable commissioning, and scalable expansion as demand grows.

Flex has demonstrated measurable improvements using this approach:

- 30% reduction in build timelines through factory integration, standardization, and parallel workflows
- Lead times as short as 16 weeks from award to deployment
- 84% reduction in on site man hours during installation
- Up to 75% reduction in on site assembly, testing and commissioning issues
- Improved safety, reduced rework, and more predictable performance
- Earlier revenue recognition and faster time to token

Our modular footprint:



Faster, predictable power deployment at scale

Flex prefabricated modular power solutions are offered in two complementary forms, power pods and power skids, designed to address different site conditions, integration strategies, and deployment models while sharing a common engineering foundation.

Power pod

Fully integrated, enclosed modular power blocks

Power pods are self-contained, factory-built electrical modules that integrate medium and low-voltage (MV/LV) equipment within a dedicated enclosure. They are designed to function as complete electrical rooms and are delivered as transportable units, minimizing on-site construction and environmental dependency, while maximizing factory completion and reducing on-site activities.

Power pods are typically used where:

- Electrical rooms must be delivered rapidly and repeatably
- Environmental separation or weather protection are required
- Used across greenfield and brownfield sites to deploy or scale capacity

Power skid

Open-frame, skid-mounted modular power assemblies

Power skids are factory-integrated electrical assemblies mounted on structural skids. They are optimized for deployment within existing buildings, dedicated electrical yards, or custom enclosures. They provide the same electrical integration and testing benefits as power pods, while offering greater flexibility for brownfield sites or constrained footprints.

Power skids are typically used where:

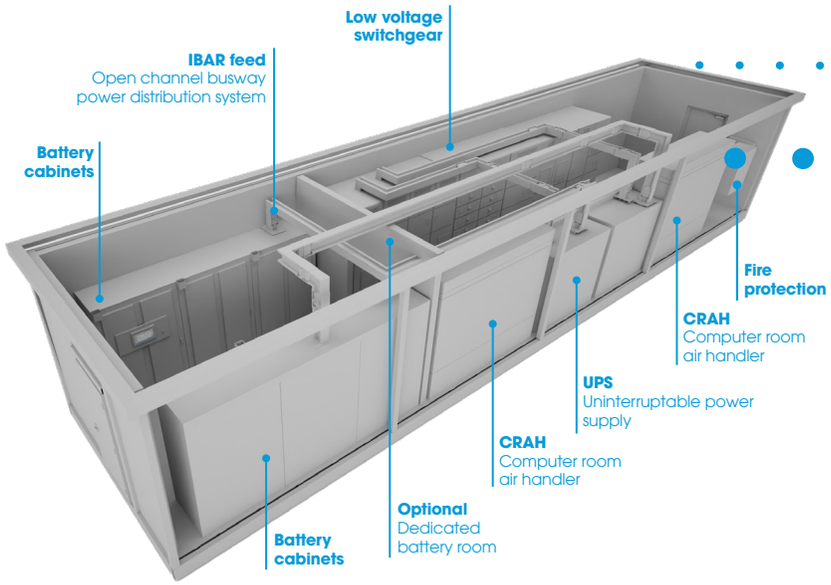
- Existing buildings or shells are being reused
- Electrical equipment must integrate into site-specific layouts
- Integrated electrical skids must be delivered rapidly and repeatably
- Enclosures are provided separately or not required

Features

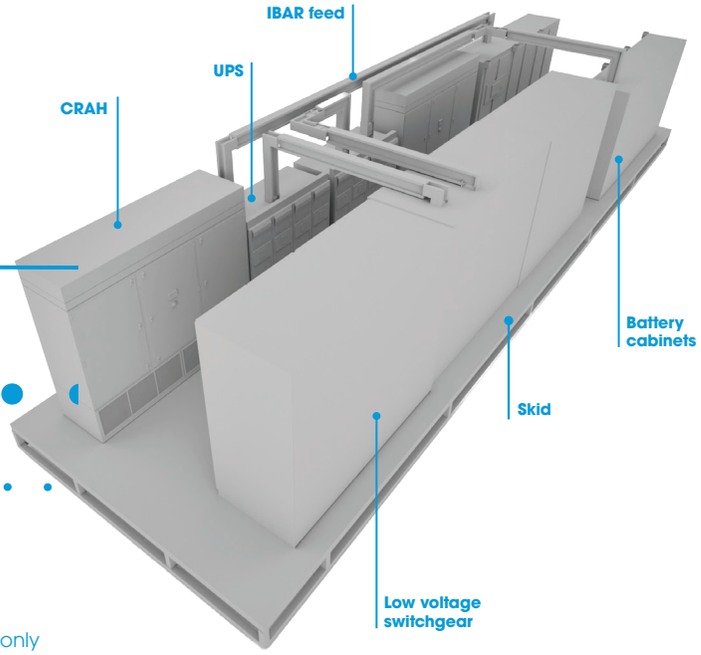
- Multi-megawatt capacity supporting up to 4MW modules
- Fully integrated power architecture, including LV and MV switchgear, transformers, ring main unit (RMU), HVAC, uninterruptible power supply (UPS), busway, and ancillary systems
- Factory-validated thermal design, verified through computational fluid dynamics (CFD) analysis, and analysis and factory acceptance test (FAT)
- Full load factory witness testing (FAT/FWT) available on request
- Accelerated on-site commissioning, reducing scope and duration of integrated systems testing (IST)
- Support for VRLA, Ni-Zn and Li-ion battery systems
- Designed to meet seismic, wind, and snow load requirements based off deployment location (seismically qualified construction available on request.)
- Compliance with regional standards available on request, including UL 891 switchboards, UL 2755 modular systems, and IEC frameworks
- Fire-rated designs aligned to specific fire protection strategies
- Building information modeling (BIM) driven coordination, eliminating clashes and field rework
- Transport-ready design; a typical module can weigh up to 100,000 lbs (45,360 kg)
- Vendor-agnostic architecture enabling component selection based on project and operational requirements

Watch Video

Power pod
Enclosed outdoor power modules



Power skid
Open frame modular assemblies for flexible deployment



Modular integrated power solution diagrams for illustrative purposes only

Discover how factory-built, integrated power modules reduce timelines, improve predictability, and support high-density data center growth.

View eBook

Technical specifications

Specification	Power pod	Power skid
Regions	NAM	
Capacity	Up to 4MW	
Voltage	34.5kV/13.2kV/480V/415V	
Outdoor operating temperature	-22°F to 122°F (-30°C to 50°C)	-
Battery operating temperature	68°F to 77°F (20°C to 25°C)	
Electrical architecture		
Main switchboard	Up to 6000A low-voltage switchboard	
UPS capacity	Up to 4MW	
UPS topology	Up to 2x2MW paralleled	
UPS configuration	Single, modular, or paralleled	
Cooling	**Power pod**	**Power skid**
Cooling method	Direct expansion or chilled water	-
Thermal design	Coordinated and verified through CFD analysis	-
Redundancy	N+1	
Battery system		
Battery type	VRLA, Li-ion, or Ni-Zn	
Battery runtime	Configurable, ≥5 minutes	
Structural/mechanical	**Power pod**	**Power skid**
Design life	Up to 25 years	Up to 25 years
Length*	53ft (16.2m)	53ft (16.1m)
Width*	11.6ft (3.7m)	8ft (2.3m)
Height*	12ft (3.7m)	10ft (3m)
Weight	100,000lbs (45,360kg)	50,000lbs (22,680kg)
Fire safety		
Fire suppression	Tested and commissioned fire suppression and VESDA systems (project specific)	
Factory testing		
Manufacturing environment	ISO 9001 controlled environment	
Testing	Full FAT/FWT testing with load available	
Scalability		
Paralleling capability	Multiple units may be paralleled (project specific)	
Additional features		
Optional	Security systems, dedicated MV switchgear and battery room, monitoring and controls (project specific)	

*Custom projects can require larger skid/pod footprint

Services and lifecycle support

Flex provides end-to-end services that extend beyond equipment supply. With full control of the manufacturing process and deep in-house expertise, we help customers plan, deploy, operate, and scale modular power solutions with confidence. Our services are designed to reduce risk, shorten timelines, and help ensure long-term performance across the full asset lifecycle.

End-to-end delivery assurance

Flex maintains full control across the manufacturing lifecycle, enabling accurate forecasting, responsive capacity planning, and reliable delivery.

Accelerated project execution

Early engineering engagement allows design risks and project-specific requirements to be resolved up front, reducing rework and shortening lead times.

Deep systems expertise

Our teams routinely deliver some of the largest and most complex modular power systems globally, providing integration expertise that extends beyond individual components.

Flexible commercial and warranty options

Commercial terms are tailored to project needs, with optional warranty extensions available for up to five additional years. Preferential manufacturing arrangements support future expansion or replacement with minimal disruption.

Global service coverage

24/7 engineering support is backed by continuous manufacturing operations and component stock. Bespoke service contracts range from start-up support to full 24/7 call-out coverage worldwide.

Comprehensive testing and servicing

Factory and field services with full electrical verification include segregation, earthing, insulation, metering, protection, and coordination, as well as flash, insulation, and primary injection testing.

08-2026/NAM

For more information, visit **flex.com**

Flex (Reg. No. 199002645H) is the global manufacturing partner of choice that helps leading brands design, build, and manage products that improve the world.

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