

Physical infrastructure imperatives for successful AI factory implementations



Thermal imperatives for AI

- Liquid Cooling becomes a requirement.
- Liquid availability and distribution is mission critical.
- Coolant distribution units become the engine of the thermal chain.
- Liquid cooling fluid is the fuel of liquid cooling systems.
- Air-cooling remains a “must”, working in tandem with liquid cooling.



Power imperatives for AI

- Power train, from chip to grid, must account for growing and unique GPU load profiles.
- Accelerating rack densities have become the norm.
- CDUs require uninterruptible power supplies.
- Bring your own power (BYOP) is becoming more common as higher power loads are delivered to sites.



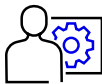
Rack imperatives for AI

- IT rack must allow for high-density power and cooling.
- Self-sensing racks are required to mitigate system failure.
- Must fit more computing into higher, wider, deeper, and heavier IT racks.



Design imperatives for AI

- Design power and cooling as an integrated system.
- Pre-engineered and pre-built solutions will reduce deployment time and improve ROI.
- AI data center infrastructure must be resilient to future challenges.



System management imperatives for AI

- An open and scalable management platform is essential.
- Monitoring and management systems must be holistic.
- Controls must be integrated at the infrastructure component level to protect servers from catastrophic events.



Service Support Imperatives for AI

- Specialized service expertise is required to maintain an AI environment.
- Ongoing training and new processes are required for both vendors and internal staff.

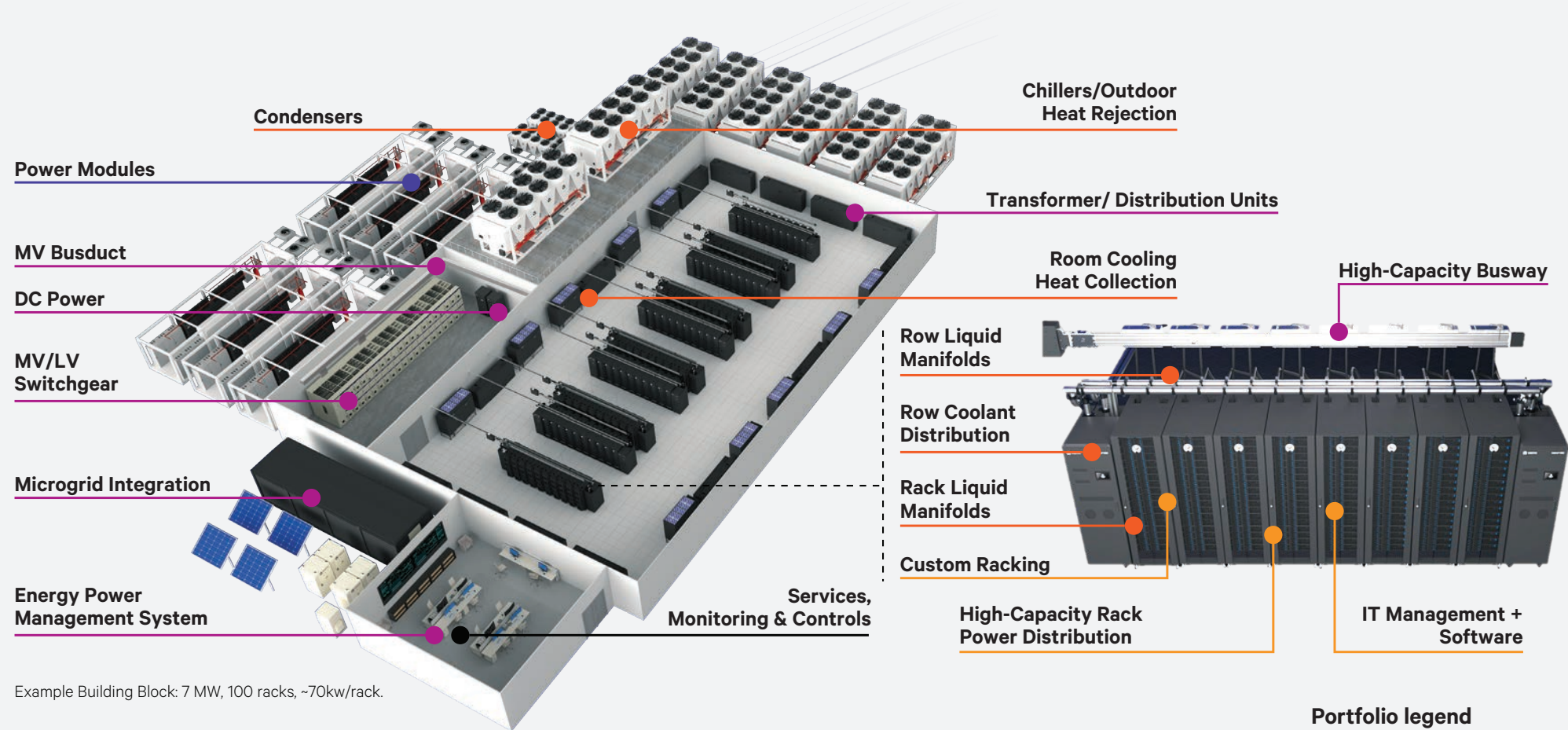


Accelerate your AI technology stack

Infrastructure innovations for AI's high-density future



End-to-end system-level critical power and cooling portfolio



**Complete power, cooling, and solutions portfolio for critical infrastructure for
Enterprise, Colo, and Cloud applications.**

Portfolio legend

- Power Management
- Thermal Management
- IT Systems
- Infrastructure Solutions
- Service

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