

SYAALA

Modular Data Centers for AI Infrastructure

Tier II–III certified. 60–200 kW. Delivered in 60 days.

60–200 kW

POWER CAPACITY

50+ kW

PER RACK (LIQUID)

60 Days

DEPLOYMENT

Engineered for GPU-scale AI workloads

Pre-certified to U.S. NEC, UL standards

Rapid deployment, minimal site integration

Precision-Engineered for Performance

Syaala Containers deliver hyperscale data center capabilities in a modular, rapidly deployable format. Purpose-built for high-density AI and compute workloads with enterprise-grade reliability.

High-Density Ready

Optimized for modern GPU and accelerated compute requirements

- Up to 30 kW per rack (DX cooling)
- 50+ kW per rack (liquid-cooled)
- Advanced airflow & cable management
- Structured cabling with fiber raceways

Tier II–III Reliability

Enterprise-grade power distribution and redundancy

- Redundant power distribution (PDU A/B)
- N+1 or 2N electrical topologies
- Integrated UPS & generator connectivity
- Automatic transfer switching

Smart Infrastructure

Complete monitoring and management systems

- DCIM-ready monitoring systems
- Real-time power & environmental tracking
- Remote management interfaces
- BMS integration (Modbus, BACnet, REST)

Rapid Deployment

Factory-built for fast, reliable installation

- Fabricated in 60-75 days
- Pre-certified to NEC, UL standards
- Field-ready, minimal site integration
- Commissioning support included

Built for AI Workloads

Syaala Containers are architected specifically for GPU-dense AI training and inference clusters. Our modular design allows you to deploy production-ready capacity in weeks, not years, with the same reliability standards as traditional hyperscale facilities.

Technical Specifications

POWER ARCHITECTURE

Capacity Options	60 kW, 100 kW, 200 kW, or custom
UPS	N+1 with lithium-ion batteries
Distribution	400A busway, hot aisle containment
Redundancy	N+1, 2N topologies available
Backup	Generator switchgear integrated

COOLING SYSTEMS

DX Cooling	Direct expansion with economizer
Liquid Cooling	Hybrid or direct-to-chip, 50+ kW/rack
Redundancy	Redundant CRAH modules
Monitoring	Leak detection grid, temperature sensors
Compliance	ASHRAE TC9.9 compliant

PHYSICAL

Dimensions	40' or 20' ISO container standard
Rack Capacity	Up to 12 GPU racks + service racks
Construction	Hardened steel, weatherproof

MONITORING & CONTROLS

Environmental	Temperature, humidity, posture sensors
Power Monitoring	PDU telemetry, breaker analytics
Fire Suppression	Aspirating detection, inert gas system
Access Control	Dual biometric + RFID
Integration	Modbus, BACnet, REST APIs
Telemetry	24/7 streaming to observability platform

RACK & CABLING

Rack Types	42U/45U standard server racks
Cable Management	High-density structured trays
Fiber	Dedicated fiber raceways
PDU Integration	Per-rack metering, remote control

CERTIFICATION & COMPLIANCE

Tier Rating	TIA-942 Tier II or III design
Electrical	UL 2755, NEC 2023 compliant
Fire Safety	NFPA 75/76 compliant
Security	ISO 27001 aligned

60-Day Standard Delivery

From configuration to commissioning, our streamlined process delivers production-ready capacity in 60-75 days. Each phase includes comprehensive documentation, testing, and stakeholder communication.

Phase 1: Design & Engineering (Days 0–15)

Configuration finalization, electrical coordination, and compliance review

- Digital twin approval and visualization review
- Bill of materials lock and procurement initiation
- Factory acceptance test (FAT) plan development
- Site preparation requirements documentation
- Electrical and mechanical coordination drawings

Phase 2: Fabrication & Integration (Days 16–45)

Container build, subsystem integration, burn-in testing, and quality assurance

- Structural assembly and weatherproofing
- UPS, generator switchgear, and power distribution installation
- Cooling system integration and loop validation
- Security, fire suppression, and environmental systems
- Full-load burn-in testing and thermal validation
- Factory acceptance testing and QA sign-off

Phase 3: Deployment & Commissioning (Days 46–60)

Shipping, site installation, commissioning, and operational hand-off

- Logistics coordination and transportation
- Site preparation completion and final inspections
- Container placement and utility connections
- Site acceptance testing (SAT) execution
- Operator training and documentation transfer
- 24/7 telemetry and monitoring go-live

Expedited Timelines Available

For critical deployments, we offer accelerated schedules with dedicated engineering resources. Contact our team to discuss timeline requirements for your specific project.

Ready to Deploy?

Let's Build Your Infrastructure

Our engineering team is ready to discuss your specific requirements, provide detailed CAD drawings, and develop a deployment plan tailored to your timeline and budget.

support@syaala.com

24-hour response time | U.S.-based engineering desk

Request Configuration

Use our interactive configurator to design your container specifications and receive instant pricing and delivery estimates.

Engineering Consultation

Schedule a technical review with our engineering team to discuss power, cooling, and site integration requirements.

Site Assessment

We provide comprehensive site preparation guidance including electrical, grounding, cooling, and fiber connectivity requirements.

Documentation Package

Request detailed CAD drawings, electrical schematics, load calculations, and compliance certifications for stakeholder review.

What You'll Receive

When you engage with Syaala, our team provides:

- Detailed configuration proposal with 3D renderings and floor plans
- Comprehensive electrical and mechanical specifications
- Investment breakdown with flexible financing options
- Site preparation checklist and integration timeline
- Compliance documentation and certification roadmap