AEC

MODULAR UPS + LITHIUM · IP55 CONTAINER

CONTAINER

1–1.2 MW

An INFINITE 1.5MW modular UPS and AEC L6 lithium cabinets on the L6 combiner, wired, cooled and secured inside one sealed 40-foot container: critical power that arrives on a truck and starts on site.



THE AEC CONTAINERIZED UPS: A SEALED 40-FOOT IP55 CONTAINER

1.2 MW	15 min	IP55	348 kWh
INFINITE 1.5MW, 125 kVA modules, N+1	at full load with L6 lithium	sealed 40-foot container	lithium at 1.2 MW, 6 × 58 kWh

Containerized UPS Overview

Containerized UPS 1–1.2 MW

A sealed, IP55 40-foot container, set on its pad and connected: the UPS, the lithium battery, cooling, fire protection and access control are already inside.



WHAT YOU SEE

1. **CCTV cameras**
   internal and external, 4 TB video server, 30 days of recording
2. **Fingerprint reader**
   opens the magnetic door for enrolled staff
3. **Entrance**
   double door under the awning
4. **Fire-protection box**
   fire protection and water, humidity and temperature monitoring
5. **Cable box and entry**
   cables enter through an isolated, sealed passage
6. **Side door**
   a second access along the long side
7. **Pad and steps**
   the container stands on its own concrete pad
8. **Sealed steel shell**
   IP55, 40 ft long, AEC-branded

The container in figures

Length	40 ft (12,192 mm)
Enclosure	sealed steel container, IP55
Inside	one row, cold and hot aisle; at 1 MW four in-row A/C units, the INFINITE 1.5MW frame, the L6 combiner and five L6 cabinets, 24 ft 11 in (7,600 mm) as drawn; at 1.2 MW a sixth L6
Air conditioning	4 in-row units, 4 outdoor units with two fans each
Outdoor unit	7 ft 4 in × 40.8 in (2,243 × 1,037 mm) as drawn, 23.6 in (600 mm) apart
Access	end double door, side door; fingerprint and magnetic lock
UPS and battery	16,980 lb (7,702 kg) at 1 MW · 19,390 lb (8,795 kg) at 1.2 MW
Monitoring	7-inch touchscreen on the INFINITE 1.5MW frame, 10-inch on the L6 master; Modbus RTU, RS232, RS485, EPO and dry contacts (4 in, 3 out) standard;

WHERE IT WORKS

- **Data centers**
  capacity outside the building
- **Industry**
  next to the process
- **Telecom and edge**
  remote sites, own cooling
- **Healthcare, campuses**
  while buildings change

WHAT THE CONTAINER INCLUDES

Factory-wired UPS, battery, cooling
Assembled and wired before it ships: UPS, lithium, cooling, fire protection and security in one box.

No power room needed
No new power room: the container stands outside, on its pad, and is connected there.

Placed and started on site
A factory-built system set on its pad, connected and commissioned on site.

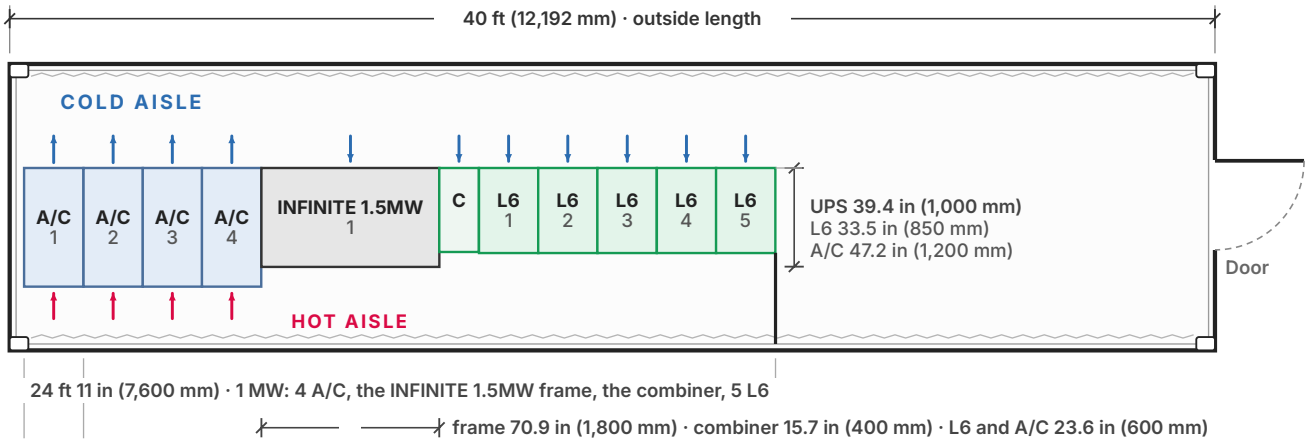
Hot-swappable modules
125 kVA UPS modules and 50 Ah LiFePO4 modules are replaced with the load on.

Access control and CCTV
Fingerprint access, magnetic door, CCTV inside and out, fire and environment watched.

Voltage: 480 V, 60 Hz
Three-phase, 3 wires + ground; sized to the load and the runtime.

Container Layout
Containerized UPS 1–1.2 MW

The 1 MW system as drawn: four in-row A/C units, the INFINITE 1.5MW frame, the L6 combiner and five L6 lithium cabinets. At 1.2 MW, a sixth L6; the project drawing sets each position.



UPS INFINITE 1.5MW frame, N+1

C L6 combiner

L6 1–5 lithium cabinets, one per 200 kW

A/C 1–4 in-row air conditioning

Cold aisle cooled air to the cabinet fronts (principle)

Hot aisle warm air back to the in-row units (principle)

UPS zone

The INFINITE 1.5MW frame, 70.9 × 39.4 × 78.7 in with its bypass breaker cabinet: hot-swappable 125 kVA modules, N+1, and a 7-inch touchscreen (INFINITE 1.5MW catalog).

Lithium zone

One L6 cabinet per 200 kW, side by side beyond the L6 combiner that joins them to the frame: 23.6 × 33.5 × 78.7 in, 20 × 50 Ah LiFePO4 modules, 58 kWh, 2,171.6 lb each (L6 catalog).

In-row cooling

Four in-row units together at the first positions (A/C 1–4) and four outdoor units: high cooling capacity; the cabinets draw from the cold aisle.

Aisles kept apart

Cold aisle in front of the row, hot aisle behind it, closed at the entrance end: internal isolation between them.

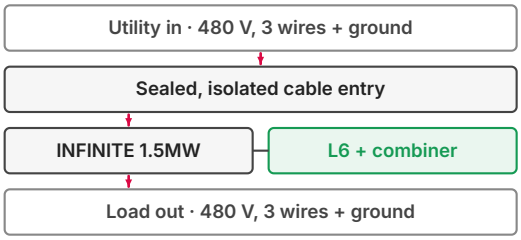
Fire and environment

Fire protection, water, humidity and temperature watched in the container; in every L6 cabinet a smoke detector and fire protection module by module.

Insulation and faults

On-line insulation monitoring locates a leak before it becomes a short circuit; the fire-control state shows on the L6 touchscreen.

Power in and out



- Sealed cable entry; 480 V three-phase, 3 wires + ground.
- The INFINITE 1.5MW frame, the L6 combiner and the L6 cabinets beside it.

Security

Access control

Fingerprint reader on the magnetic door of the entrance; a side door for service.

CCTV

Cameras inside and out; 30 days of recording on a 4 TB video server.

Fire and environment

Fire protection; water, humidity and temperature watched.

Configurations and Ordering
Containerized UPS 1–1.2 MW

Two systems, one container: one INFINITE 1.5MW frame, N+1, with five or six L6 **lithium** cabinets on the L6 combiner. AEC builds, delivers and commissions the container.

1 MW

INF15-1000+1 + 5 × L6



INFINITE 1.5MW **combiner + 5 × L6 · 20 × 50 Ah**
9 × 125 kVA modules master with touchscreen

9	100	290 kWh
× 125 kVA modules	× 50 Ah LiFePO4	lithium, 5 × 58 kWh

1.2 MW

INF15-1250+1 + 6 × L6



INFINITE 1.5MW **combiner + 6 × L6 · 20 × 50 Ah**
11 × 125 kVA modules master with touchscreen

11	120	348 kWh
× 125 kVA modules	× 50 Ah LiFePO4	lithium, 6 × 58 kWh

The two systems

	1 MW	1.2 MW
Rating	1,000 kW on the 1,000 kVA frame	1,200 kW on the 1,250 kVA frame
UPS	INF15-1000+1: one INFINITE 1.5MW frame, 9 × 125 kVA modules (8 + 1 spare), hot-swappable	INF15-1250+1: one INFINITE 1.5MW frame, 11 × 125 kVA modules (10 + 1 spare), hot-swappable
Lithium	5 × L6-CAB-20x50LI on the L6-COMBINER: 100 × 50 Ah LiFePO4, 290 kWh	6 × L6-CAB-20x50LI on the L6-COMBINER: 120 × 50 Ah LiFePO4, 348 kWh
Backup, full · half load	15 min · 30 min	15 min · 30 min
Weight, UPS and battery	16,980 lb (7,702 kg)	19,390 lb (8,795 kg)

Both: 480 V three-phase, 3 wires + ground, 60 Hz; recharge under 2 hours. UPS data: the INFINITE 1.5MW catalog; battery data: the L6 catalog.

From order to operation

1. **Survey** — Site, power, truck access, room for the pad.
2. **Configuration** — 1 or 1.2 MW, the runtime.
3. **Factory build** — UPS, **lithium**, cooling, fire and security wired in.
4. **Delivery** — By truck; set on its concrete pad.
5. **Connection** — Cables through the sealed entry.
6. **Start-up** — Every value, alarm and contact tested by AEC.
7. **Service** — 24/7 assistance, maintenance and parts.

ORDERING, WARRANTY AND SERVICE

The codes order the UPS with its L6 cabinets; the container (40 ft, IP55, cooling, fire, security) and the site works are quoted with each project.

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5 years — L6 cabinets

3 years — INFINITE UPS

24/7 — assistance

Miami — start-up and training