FLUX EMBER

ENERGY INFRASTRUCTURE THAT MOVES WITH THE MISSION

Rapid-deployable containerized power & heat for disaster response and recovery

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WHEN THE GRID GOES DOWN

Critical operations still have to run — quietly, continuously, for days.

OUTAGES LAST DAYS, NOT HOURS

Storms and grid failures leave hospitals, shelters and command posts without power long after the first 24 hours.

CONVENTIONAL GENSETS ARE LOUD

Diesel units disrupt patients, residents and personnel — and demand constant refueling logistics.

USABLE HEAT GOES TO WASTE

Standard generation dumps thermal energy that could be heating space and water on site.

FLUX EMBER WAS BUILT FOR EXACTLY THIS.

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CONTAINERIZED COMBINED HEAT & POWER

FLUX EMBER packages generation, energy storage, controls and thermal-energy recovery into a transportable platform designed to establish resilient onsite energy at temporary and infrastructure-constrained locations.

<50	27	288	12.6
dBA @ 3 FT	kVA PEAK OUTPUT	kWh / DAY AVAILABLE	kW-th USEFUL HEAT

One 20-foot transportable unit. Generation, battery storage, controls and thermal recovery — delivered, sited and running.

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BUILT FOR RESILIENCE

Four capabilities that define the platform

01

WHISPER-QUIET GENERATION

Designed for quiet operation at under 50 dBA at three feet. Suited to hospitals, housing and command centers.

02

EXTENDED-RUNTIME RESILIENCE

Onsite fuel storage supports continuous operation for days, depending on tank capacity and site load.

03

POWER + USEFUL HEAT

Generates electricity while recovering thermal energy for space heating and hot-water applications.

04

INTEGRATED ENERGY SYSTEM

Generation, battery storage, controls and thermal recovery in one transportable unit.

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TECHNICAL SPECIFICATIONS

20 ft containerized power & command center

SPECIFICATION	VALUE	SPECIFICATION	VALUE
Continuous output	15 kVA	Energy availability	288 kWh / day
Peak output	27 kVA	Thermal output	12.6 kW-th
Max power output	360 A @ 120 VAC	Noise level	< 50 dBA @ 3 ft
Output circuits	3 × 120 A	Fuel compatibility	NG / CNG / PNG / Bio-CNG
SOFC generation	12 kW	Fuel tank options	120 / 250 / 500 / 1000 gal
Output	120 / 240 VAC, 60 Hz	Container	20 ft (6.096 m)
Process heat	122–185 °F	Runtime (1,000 gal)	29.2 days

Runtime and output depend on fuel-storage capacity, system configuration and site load.

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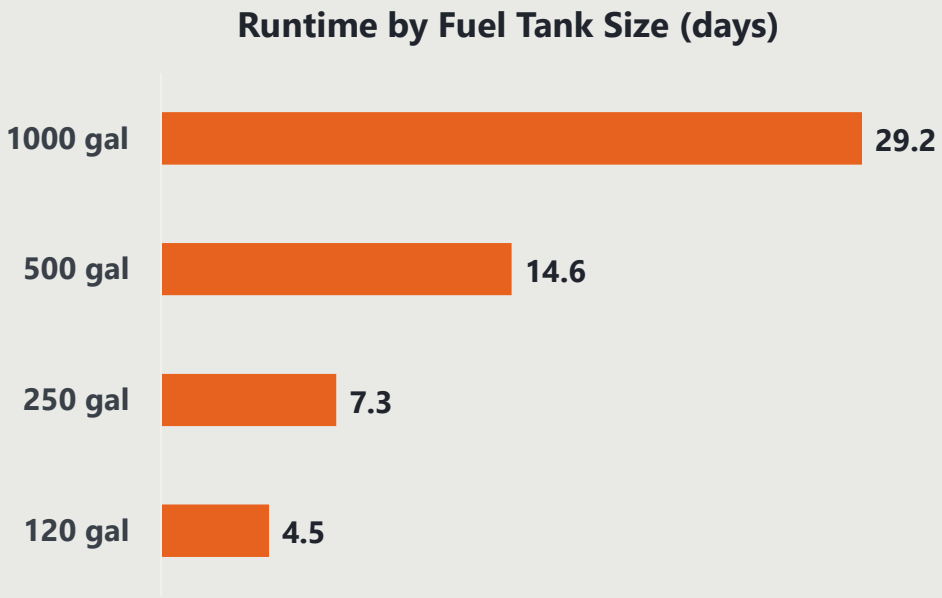
FUEL FLEXIBILITY & RUNTIME

Size the tank to the mission — longer runtime without resupply



FUEL COMPATIBILITY

- Natural gas (NG)
- CNG and PNG
- Bio-CNG
- Methane

Runtime depends on fuel-storage capacity, system configuration and load.

Fewer resupply runs. More time on mission.

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POWERING THE RECOVERY MISSION

FROM INITIAL RESPONSE THROUGH LONG-TERM RECOVERY

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WHERE IT DEPLOYS

Four mission profiles for response and recovery

TEMPORARY HOUSING

Power without the noise

Electricity and useful thermal energy near temporary housing, without the constant noise of conventional generators.

TEMPORARY MEDICAL FACILITIES

Quiet, continuous energy

Supports medical equipment, refrigeration and lighting while keeping a quieter environment for patients and staff.

PUBLIC SAFETY & DEFENSE

Extended field operations

Onsite energy for police, fire and defense teams operating well beyond fixed infrastructure.

MISSION COMMAND

A deployable energy hub

Generation, storage, controls and mission-support infrastructure where permanent facilities are unavailable.

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ONE UNIT, FULLY INTEGRATED

INSIDE THE CONTAINER

- SOFC generation — 12 kW
- Battery energy storage
- Integrated controls and remote monitoring
- Thermal-energy recovery for space heating and hot water
- Onsite fuel storage, 120 to 1,000 gallons

HOW IT DEPLOYS

01 Ships as a standard 20 ft (6.096 m) container

02 Sited and connected at the point of need

03 Runs continuously — power and useful heat

04 Monitored remotely across the deployment

05 Relocates as the mission moves

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DEPLOYABLE POWER. USEFUL HEAT.

MISSION RESILIENCE.

Let's scope a FLUX EMBER deployment for your mission — contact the Flux team to discuss siting, fuel and runtime requirements.

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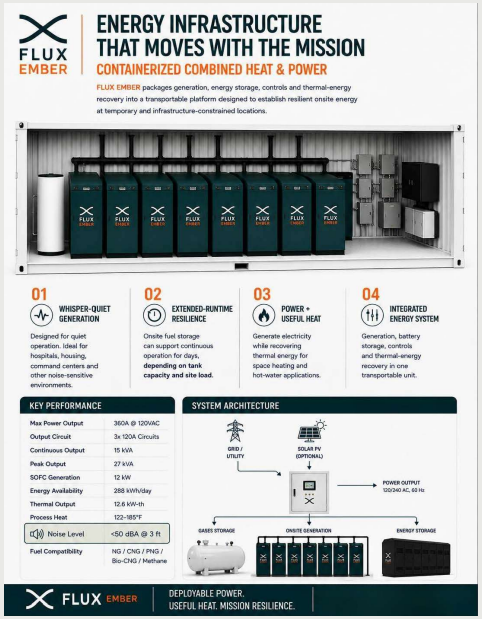
PRODUCT BROCHURE

Full-page reference — leave-behind collateral

01 DISASTER RESPONSE



02 SYSTEM & PERFORMANCE

03 MISSION APPLICATIONS

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