

FLUX EMBER

**ENERGY INFRASTRUCTURE THAT MOVES
WITH THE MISSION**

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



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.

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

dBA @ 3 FT

27

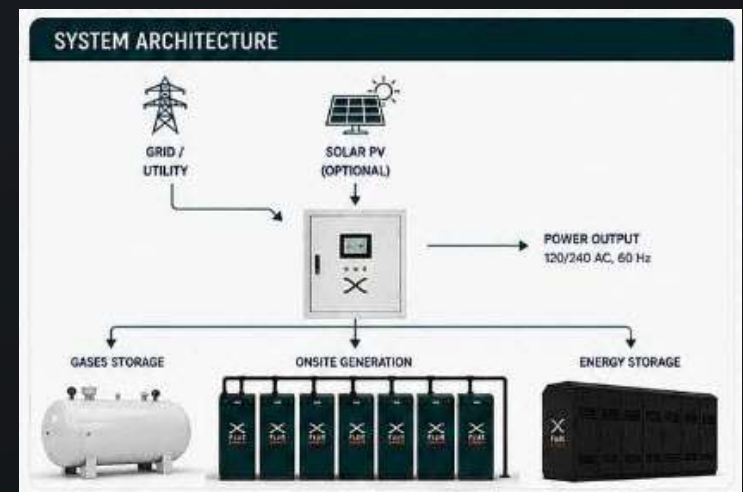
kVA PEAK OUTPUT

288

kWh / DAY AVAILABLE

12.6

kW-th USEFUL HEAT



One 40-foot transportable unit. Generation, battery storage, controls and thermal recovery — delivered, sited and running.

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.

TECHNICAL SPECIFICATIONS

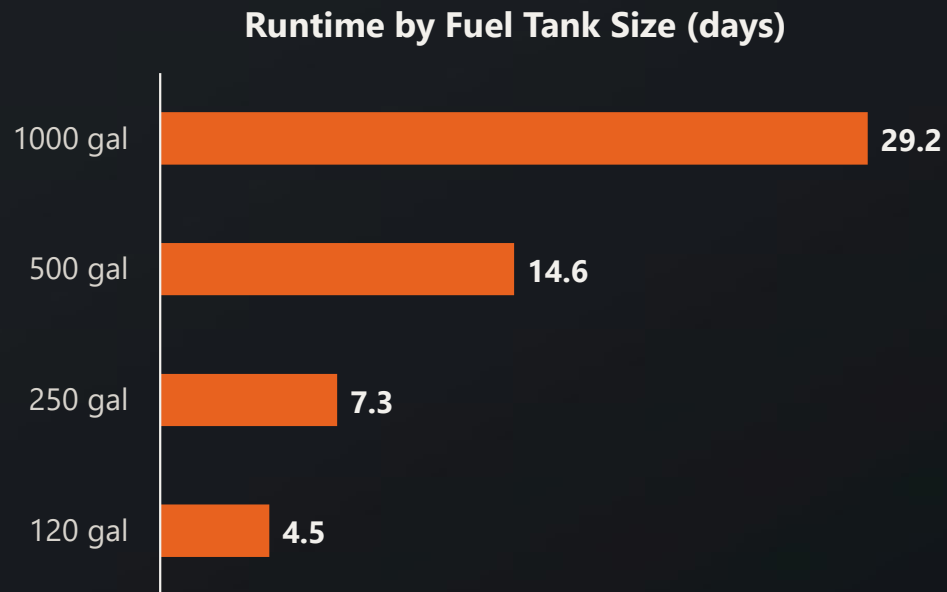
40 ft containerized power & command center

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	40 ft (12.19 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.

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.

POWERING THE RECOVERY MISSION

FROM INITIAL RESPONSE THROUGH
LONG-TERM RECOVERY



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.

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 40 ft (12.19 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

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.

PRODUCT BROCHURE

Full-page reference — leave-behind collateral

WHEN THE GRID GOES DOWN, CRITICAL OPERATIONS KEEP RUNNING.

RAPID-DEPLOYABLE POWER & HEAT FOR DISASTER RESPONSE & RECOVERY

- WHISPER QUIET**
550 dBA @ 3 ft
Quiet operation ideal for populated and mission-critical environments.
- MULTI-DAY OPERATION***
Run for days depending on fuel tank size and site energy demand.
- POWER + HEAT**
Generate electricity and recover useful thermal energy.
- RAPIDLY DEPLOYABLE**
Containerized, transportable and ready to power your mission when and where it's needed.

POWER WHERE INFRASTRUCTURE ISN'T AVAILABLE
FLUX EMBER is a containerized distributed energy platform designed to support critical operations when conventional electrical infrastructure is damaged, unavailable or constrained.
Combining onsite generation, energy storage, fuel flexibility and useful thermal energy, FLUX EMBER can be rapidly deployed to support disaster response and recovery operations without waiting for permanent electrical infrastructure to be restored.

BUILT FOR DISASTER RESPONSE. DESIGNED FOR RESILIENCE.

- RELIABLE POWER**
Continuous, high-quality electricity for critical loads.
- MISSION CRITICAL**
Support medical facilities, command centers and more.
- ENERGY STORAGE**
Integrated battery storage provides flexibility and load support.
- USEFUL HEAT**
Recover thermal energy for space heating and hot-water needs.
- REMOTE MONITORING**
Monitor and manage system performance from anywhere.
- FUEL FLEXIBILITY**
Operates on natural gas, LNG, HFO, propane and other compatible fuels.

BRING THE POWER INFRASTRUCTURE WITH YOU.
Deployable Power. Useful Heat. Extended Runtime. Mission Resilience.

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

01 DISASTER RESPONSE

ENERGY INFRASTRUCTURE THAT MOVES WITH THE MISSION

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.

01 WHISPER-QUIET GENERATION

Designed for quiet operation. Ideal for hospitals, housing, command centers and other noise-sensitive environments.

02 EXTENDED-RUNTIME RESILIENCE

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

03 POWER + USEFUL HEAT

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

04 INTEGRATED ENERGY SYSTEM

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

KEY PERFORMANCE

Max Power Output	300kW @ 120VAC
Output Circuit	3x 120A Circuits
Continuous Output	15 kW
Peak Output	27 kW
SOFC Generation	12 kW
Energy Availability	268 kWh/day
Thermal Output	12.8 MBtu/hr
Process Heat	122-180°F
Noise Level	<50 dBA @ 3 ft
Fuel Compatibility	H ₂ / CH ₄ / PNG / Bio-CH ₄ / Methane

SYSTEM ARCHITECTURE

02 SYSTEM & PERFORMANCE

POWERING THE RECOVERY MISSION

FROM INITIAL RESPONSE THROUGH LONG-TERM RECOVERY

40FT CONTAINERIZED POWER & COMMAND CENTER

When the grid is down, your mission can't stop.

FLUX EMBER delivers quiet, continuous power and useful heat for critical operations when and where you need it most.

TEMPORARY HOUSING
POWER WITHOUT THE NOISE
Provide electricity and useful thermal energy for temporary housing while avoiding the continuous noise associated with conventional generators.

TEMPORARY MEDICAL FACILITIES
QUIET, CONTINUOUS ENERGY
Support critical medical equipment, refrigeration, lighting, communications and other essential electrical loads while maintaining a quiet environment for patients and medical personnel.

PUBLIC SAFETY & DEFENSE
EXTENDED FIELD OPERATIONS
Provide clean energy for police, fire, emergency management, National Guard, military and other mission operations, operating where utility infrastructure is compromised.

MISSION COMMAND
A DEPLOYABLE OPERATIONAL ENERGY HUB
Coordinate onsite generation, energy storage, control and mission support infrastructure to establish command and control centers. Mission Resilience on utility services are available.

RUNTIME OPTIONS*

TANK SIZE	FUEL (KG)	RUNTIME	DAYS
120 Gal.	240.4 kg	110 hrs	4.5 days
250 Gal.	384 kg	175 hrs	7.3 days
500 Gal.	769 kg	352 hrs	14.6 days
1000 Gal.	1537 kg	704 hrs	29.2 days

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

POWER FOR DAYS. QUIET ENOUGH TO LIVE AND WORK BESIDE.
1000+ hrs. 1000+ hrs. 1000+ hrs. 1000+ hrs.

03 MISSION APPLICATIONS