

ALTERGY FUEL CELL TECHNOLOGY

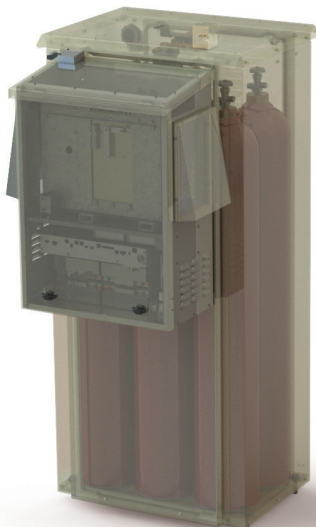
Endless Backup Power for Intersections

Are your Intersections Ready for a Power Outage?

A dark intersection can be a real challenge. Not only does it impede traffic flow, but it also creates significant safety concerns for drivers and pedestrians. For most agencies, it's not a question of if an intersection is going to go dark but when. Whether it's from rolling blackouts, the aging U.S. grid, wildfires, wind, snow, or other factors, it's important to prepare for outages with reliable and clean backup power.

Keep Intersections Safe with Reliable Backup Power

Altery has developed breakthrough fuel cell technology built to the highest standards, delivering reliable, clean and cost-effective backup power solutions. Altery's fuel cell technology has been proven over a wide-spread number of global deployments, across multiple sectors and in all types of climates.



The Altery Advantage



Endless Power

Keep intersections running during a outage for days, weeks or even months.



Easy Maintenance

The annual preventive maintenance checklist only includes an air filter replacement.



Small Footprint

The Altery cabinet has a smaller physical footprint than traditional fuel cells or other backup power solutions.



Environment Friendly

Altery fuel cells are certified by the California Air Resources Board as zero-emission power generators.



Quiet Operation

With no moving parts, there's no hum or noise from the fuel cell cabinet.



Integrated Systems Specifications

- 1kW Fuel Cell System w/On-Line Double Conversion UPS
 - Typical traffic signal load: 350 W (flash mode)
 - Typical traffic signal Load: 800 W (normal signal operation)
 - Complete integrated power quality and backup power solution in a single cabinet
 - 6 "K" cylinder fuel bay
- Environmental Controls
 - -40oC to 50oC (Note: air recirculation design will exhaust up to 65oC internal cabinet temperature upon system start-up and will bring-in cooler ambient air)
 - Small heater
 - Inlet air filter
- Enclosure
 - Fuel Bay – Meets or exceeds NFPA (55) criteria**
 - FCE Bay – Meets or exceeds FC1 criteria**
 - Overall Dimensions: 30"W x 38"D x 72" T
 - Base Contact: 30"W x 20.25"D
- Onboard Fuel Capability
 - 54 kW-hrs w/6X "K" Cylinder Solution
 - 155 hrs @ 350W load
 - 68 hrs @ 800W load
- Preventative Maintenance
 - Clean or replace inlet air filter once/year or every 500 hours of operation.

*Specifications subject to change without notice

**Certifications Pending