



Upgen NXG

Fuel Cell Generator

Upgen NXG Fuel Cell Generators are next-generation on-demand energy appliances, enabling whole-home electrification without compromises. Deployed in combination with battery storage and solar (optional), they make comprehensive residential energy resilience and grid independence a reality for homeowners.

Running efficiently and reliably on commonly available fuels like propane and natural gas, hydrogen-ready Upgen NXG Fuel Cells feature virtually silent operation, ultra-low emissions and a significantly lower total cost of ownership compared to legacy internal combustion engine (ICE) generators.

Upgen NXG Fuel Cell Generators make residential solar + battery storage systems energy resilient AND grid independent, enabling whole-home electrification without compromises.

HOW IT WORKS

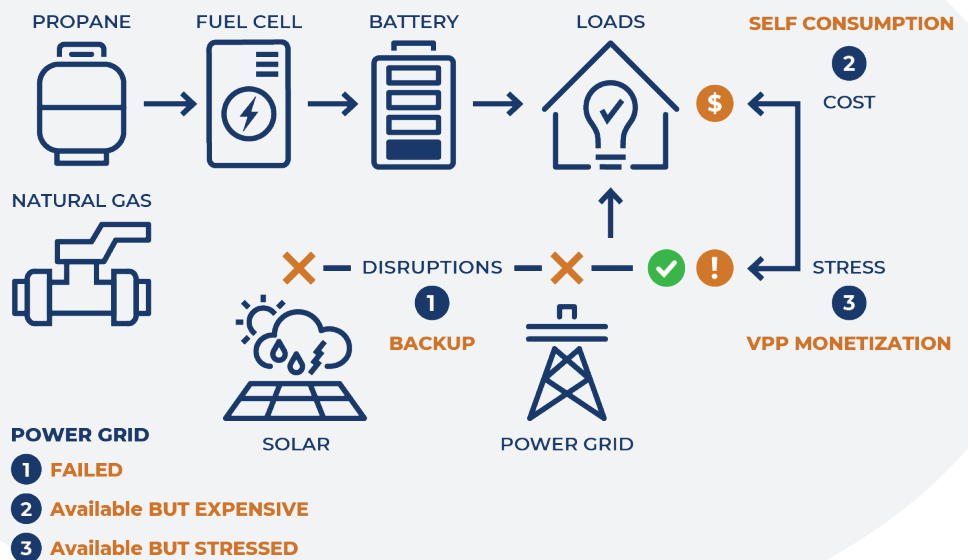
During grid outages, battery storage powers the house, while the fuel cell replenishes the battery when the sun is not shining.

During periods of high utility pricing and grid stress, the fuel cell enables optimized self-consumption and VPP program monetization.

NEXT-LEVEL RELIABILITY

Upgen NXG Fuel Cell Generators leverage next-generation solid oxide fuel cell (SOFC) technology that robustly outperforms ICE generators in making residential solar + battery storage systems efficient, resilient and grid independent.

ON-DEMAND ENERGY APPLIANCE



For more information about the Upstart Power OEM Program, please email us at info@upstartpower.com

Upgen NXG Fuel Cell Generator

A Smarter Generator for a Cleaner Tomorrow™



Upgen NXG Fuel Cell Generators are next-generation on-demand energy appliances with SOFC technology. Robustly outperforming traditional ICE backup generators, Upgen NXG makes residential solar + battery storage systems energy resilient AND grid independent, enabling whole-home electrification without compromises.

EFFICIENT ~3x more days of power from the same amount of fuel.

RELIABLE Virtually maintenance free. No regular service required.

SAFE No hazardous Carbon Monoxide.

QUIET Quieter than a refrigerator. No annoyed neighbors.

CLEAN Negligible carbon footprint compared to the emissions of a traditional ICE backup generator.

FLEXIBLE Works with readily available fuels like propane and natural gas and is hydrogen-ready.

SCALABLE Easy-to-install, wall-mounted, modular architecture. Deploy multiple units in parallel to power larger home load profiles.

PROFITABLE Operate in backup and grid-connected modes, enabling VPP program participation. Eligible for 30% ITC.

PERFORMANCE

| | |
|--------------------------------|--|
| Electrical Coupling | 240 VAC |
| Total Energy Production | ~30 kWhr per day → 24h average home consumption |
| Power, Maximum (Continuous) | 1.25 kW |
| Fuel Input Options | Propane, Natural Gas, Hydrogen-ready |
| Fuel Consumption - Propane | 0.13 Gal / kWhr → 200 Gal → 1,540kWh → 52 days |
| Fuel Consumption - Natural Gas | 12 ft3 / kWhr |
| Communication | Ethernet, Cellular, Wi-Fi |

MECHANICAL

| | |
|------------------|---|
| Dimensions | 96 x 75 x 29 cm (37.8" x 29.5" x 11.4") |
| Weight | 80 kg (175 lb) |
| Mounting Options | Wall |

ENVIRONMENTAL

| | |
|---------------------------|----------------------|
| Operating Temp | -20 to 50°C |
| Operating Humidity | Up to 95% condensing |
| Storage Conditions | -40 to 80°C |
| Maximum Elevation | 2,000 m |
| Ventilation Requirement | Outdoor operation |
| Noise Level @ 23 ft (7 m) | <47 dBA |

COMPLIANCE

| | |
|---------------|---|
| Safety | US: CSA/ANSI FC 1:21, UL 62368-1 Canada: CSA C22.2 No. 62282-3-100:21, CAN/CSA – C22.2 No. 62368-1 |
| EMC | US: FCC 47 CFR Parts 15, 22, 24, 27 Canada: ICES-003, RSS-Gen, RSS-247, RSS-132, RSS 133, RSS-139, RSS-130 |
| Environmental | UL50/UL50E Type 3R |
| Seismic | IEC 60068-3-3:2019 |

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