



RESIDENTIAL FUEL CELL SYSTEM

WATT HOME™

BACKUP POWER



About Us

WATT is a leading contributor of ideas and technologies that seeks to develop advanced energy solutions for significant energy matters.

WATT designs, develops and manufactures small-scale Solid Oxide Fuel Cell (SOFC) systems that economically generate clean, reliable power at the point of use.

Why Choose Us



Powering Peace of Mind

Paired with an energy storage to provide a complete uninterrupted power supply solution - Working All the Time™ to provide consistent, reliable power.



Technology Advantage

Non-combustion SOFC technology provides higher efficiency, quieter operation, and lower emissions than generators.



Future Ready

Utilizing the existing residential natural gas infrastructure with the ability to accept up to 20% blended Hydrogen, WATT HOME provides consistent power without compromise.

Features & Benefits

Operations

- High Reliability
- Modular and Scalable
- Natural Gas Operation
- Indoor Operation

Clean Energy Advantage

- Low Emissions
- No NOx or SOx
- Can Integrate with Solar
- Energy storage integration

Certification, Safety & Connectivity

- FC1 and UL 1741 Certified
- Passive Safety Features
- App Connectivity for Continuous Monitoring with Internet Availability

Contact Us

 724.547.9170

 www.wattfuelcell.com

Clean, dependable power.
WATT HOME
The future of energy is here.

The Ultimate Resiliency Solution

83% of reported major power outages are attributed to weather-related events, and those events are on the rise. The U.S. experienced about two times more weather-related outages during the last 10 years (2014-2023) than the prior 10 years.

The WATT HOME system pairs with additional energy storage and optional solar to provide a resilient backup power solution that's Working all the Time™. WATT HOME optimizes its operation taking a true hybrid approach to energy management - ensuring consistent, reliable power utilizing the natural gas available in your home.

Undergrounded natural gas infrastructure is at lower risk than electrical transmission and distribution during weather events. Large weather events mean longer term disruption - U.S. electricity customers averaged 5.5 hours of power interruptions in 2022, and the risk is growing.

With 36kWh of available power every day, WATT HOME keeps the lights on even for long duration outages.



Product Characteristics

Outputs

Nominal Power Output	1500 W
Nominal Voltage	120 VAC
Power Availability/day	36 kWh

Physical & Environmental

Weight (Fuel Cell)	64 lbs/29 kg
Weight (Interface Pedestal)	146 lbs /66.4 kg
Dimensions (Fuel Cell)	24.6" x 14.1" x 14.7" (62.5 cm x 35.8 cm x 37.3 cm)
Dimensions (Interface Pedestal)	25.3" x 14.4" x 29.4" (64.3 cm x 36.6 cm x 74.7 cm)
Operating Temperature	14°F - 104°F (-10°C - 40°C)
Storage Temperature	-4°F - 167°F (-20°C - 75°C)
Location	Indoor
Humidity	5-95% Non-Condensing
Noise	<50 dBA @ 3 ft

Included Start-up/Transient Battery Capacity

Battery Type	AGM or Li-Ion
Nominal Battery Voltage	48 V
Battery Voltage Range	42-60V
Min. Transient Battery Capacity	55 Ah

Fuel Requirements

Approved Gas Type	>90% Methane <10% Additional Hydrocarbons
Desulfurization	< 1ppm after desulfurization
Gas Supply Pressure	0.5 psi
Nominal Gas Consumption	15.88 ft ³ /hr

Emissions

NOx	0 ppm
SOx	0 ppm
CO	< 30 ppm

Codes & Standards

ANSI CSA FC-1 and UL 1741 Certified



Today's Innovation
Empowering Your World.