



# RECREATIONAL FUEL CELL SYSTEM WATT NOMAD™



## 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



### Clean Hybrid Energy

Working in tandem with your solar power (optional) and batteries, our lightweight, reliable, load-following fuel cell power unit will make your adventures worry-free, energy-secure, and environmentally friendly.



### Technology Advantage

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



### Powering Adventure

Clean, simple, quiet power that protects the environment while explorers enjoy it. With WATT's clean fuel cell technology onboard, campers and boaters can peacefully achieve their traveling goals, anytime, anywhere.

## Features & Benefits

### Operations

- High Reliability
- Modular and Scalable
- Propane Operation
- Enclosure Compatible

### Clean Energy Advantage

- Low Emissions
- No NOx or SOx
- Can Integrate with Solar and Energy Storage

### Design, Safety & Connectivity

- Designed to be Compliant with FC1 and UL 1741
- Passive Safety Features
- App Connectivity for Continuous Monitoring with Internet Availability

Contact Us

 724.547.9170

 [www.wattfuelcell.com](http://www.wattfuelcell.com)

# Product Characteristics

## Outputs

### WATT NOMAD 500

Nominal Power Output	500 W
Nominal Voltage	48Vdc
Power Availability/40 lbs Propane	208 kWh

### WATT NOMAD 1250

Nominal Power Output	1250 W
Nominal Voltage	48Vdc
Power Availability/40 lbs Propane	208 kWh

## Recommended Min. Capacity Requirements

### ALL NOMAD MODELS

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

## Physical & Environmental

### ALL NOMAD MODELS

Weight (1250 Model)	64 lbs/29 kg
Weight (500 Model)	52 lbs /23.6 kg*
Dimensions	24.6" x 14.1" x 14.7" (62.5 cm x 35.8 cm x 37.3 cm)
Operating Temperature**	14°F - 104°F (-10°C - 40°C)
Storage Temperature**	-4°F - 167°F (-20°C - 75°C)
Humidity	5-95% Non-Condensing
Noise	<50 dBA @ 3 ft

## Codes & Standards

Designed to be compliant with ANSI CSA FC-1 and UL 1741

## Notes & Application Engineering

All WATT NOMAD models are compatible with market available DC to DC converters

\*Estimated

\*\* Temperature requirements can be optimized through application design and fuel cell operation engineering

## Fuel Requirements

### ALL NOMAD MODELS

Approved Gas Type	HD5 Propane >85% Propane <5% Propylene
Desulfurization	< 1ppm after desulfurization
Gas Supply Pressure	0.5 psi
Max Gas Consumption (500W)	0.36 lbs/hr
Max Gas Consumption (1250W)	0.68 lbs/hr

## Emissions

### ALL NOMAD MODELS

NOx	0 ppm
SOx	0 ppm
CO	< 30 ppm



Today's Innovation  
Empowering Your World.