

FCATS™ X60

Solid Oxide Fuel Cell Single Cell /Stack Test Station



- Approximate power range: 0.5 – 5 kW
- Available PLC control for safe and stable operation
- Comprehensive safety features
- HyWARE II™ control and automation software
- Easily expandable for additional I/O and diagnostic tools
- Fully automated for unattended operation
- Various furnace configurations available

The X60 Advantage

The Greenlight FCATS SOFC test station is designed to have all the flexibility to meet your testing needs. The station's open architecture results in a system that is customer definable; tailored to your exact requirements.

Our proven HyWare control and automation system is available in either PLC or PC format for real-time testing and reliability. Test stations are fully automated with a variety of multi level safety interlocks. Features include:

- Fuel gas blending
- Automated N₂ safety purge
- Multiple furnace options
- Liquid fuel capable
- H₂, CO sensors
- Multistage gas preheating option
- Electric or NG pre-heating
- Heat reclamation options
- Exhaust treatment options
- Choice of humidification options

Specifications

POWER RANGE	0.5 - 5 kW
GAS FLOWS	
Anode flow range	Customer definable (20:1 turndown)
Cathode flow range	Customer definable (20:1 turndown)
GAS MIXING	
Anode and cathode inlets	up to 7 gases available
Liquid fuel	Gasoline or diesel
GAS HUMIDIFICATION	
Dew point control	up to 90°C (194°F)
Technology	Water injection, contact or steam
PRESSURE CONTROL	
Control range	0 - 300 kPa
GAS PRE-HEATING	
Heater type	Electric or natural gas
PROGRAMMABLE LOAD BANK	Customer definable
DIAGNOSTIC OPTIONS	EIS, Current interrupt
SAFETY FEATURES	hard-wired interlocks, N ₂ purge, manual emergency stop, H ₂ and CO detection



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