

ELECTRONIC LOADBANK

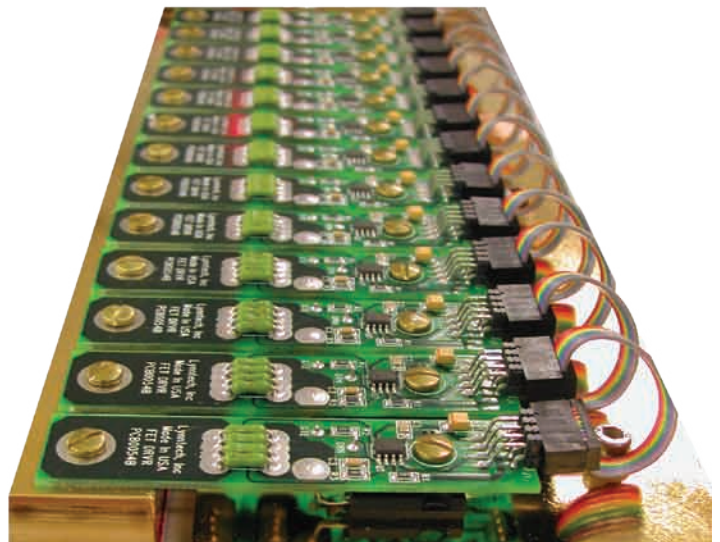
A COMPONENT OF FIDERIS'S FUEL CELL TEST SYSTEM™

An Advanced Testing System for Fuel Cell Development



- Short Circuit Resistance *Below* 0.5 milliohms on 1 kW Load and *Below* 0.25 milliohms for the 2 kW Model
- System Wide Control of All Fideris Fuel Cell Test Equipment Using FCPower™ Software

- Fully Programmable, Solid-State Load
- Patented Design is Optimized to Provide Ultra-Low Impedance Operation for Fuel Cell Testing
- Load is Compatible with AC Impedance or Frequency Response Analyzers



MODEL FCTS EL™
FUEL CELL TEST SYSTEM ELECTRONIC LOADBANK™

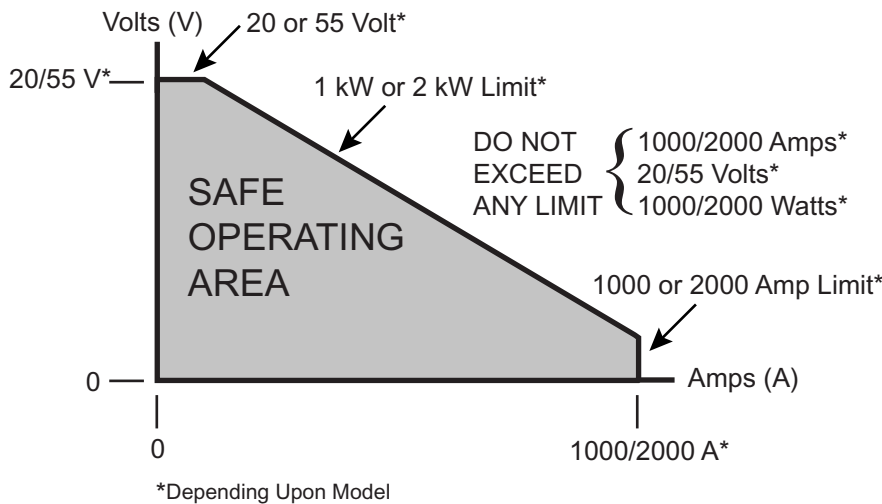
fideris
innovative solutions

ELECTRONIC LOADBANK

A MEMBER OF FIDERIS'S FUEL CELL TEST SYSTEM™ FAMILY

FEATURES:

- Self-contained air cooled system
- Fully user programmable operation
- Constant current, constant voltage, or constant power modes of operation
- Automatic current ramp operation with user specified starting load, ending load, and ramp rate
- Pulsed current operation: adjustable amplitude, duty cycle, and frequency
- Externally located standard shunt for convenient access
- Interchangeable shunts for precise operation over a wide dynamic range
- Load banks can be configured in parallel for increased capacity
- System wide control of all Fideris FCTS™ equipment using FCPower™ Software



Available Models: FCTS EL 1000-20V
 FCTS EL 1000-55V
 FCTS EL 2000-20V
 FCTS EL 2000-55V

SPECIFICATIONS:

Loadbank

Type: MOSFET variable resistance load bank
 Current Measurement: Exchangeable shunt (standard shunts from 5 Amps to 2000 Amps available)
 Maximum Current Rating: 1000 Amps or 2000 Amps
 Maximum Voltage Rating: 20 Volts or 55 Volts
 Maximum Power Dissipation: 1 kW or 2 kW
 Nominal Short Circuit Resistance: < 0.5 milliohms / 0.25 milliohms
 Load Capacitance: Less than 25 pF
 Corrosion Protection: All critical components gold plated

Back Pane Connections

Power Inlet: IEC-320 (mating cord provided)
 Load Connections: Bolt down terminals

Electrical Requirements

Voltage: 120 VAC (208/220/240 optional)
 Frequency: 50/60 Hz
 Circuit Rating: 3 Amps @ 120 V

Installation Requirements

Clearance for Operation: Back: 8", Sides: 0", Top: 0"

Physical Characteristics

Dimensions: 8" high, 18.5" wide, 21" deep
 System Weight: 55 lbs
 Operating Environment: 40° to 100° Fahrenheit; 85% RH
 Cabinet Rating: Indoor

Specifications subject to change.

This equipment may be protected by one or more of the following patents: U.S. Patent # 5,512,831, 6,324,042, 6,383,671, 6,792,320. Additional patents pending. Fuel Cell Test System, FCTS, Fuel Cell Test System Electronic Loadbank, FCTS EL, FCPower, and Fideris are trademarks of Fideris Incorporated.

For sales, literature, or technical information regarding Fideris's Fuel Cell Test Systems, please contact:



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