

2 kW CONTROLLED LOAD BOX

CLB-2000 / LB-2000

A 150 A / 50 V controlled electronic load to study stacks of:

- FUEL CELLS
- SOLAR CELLS



GENERAL SPECIFICATIONS:

- 2 kW controlled electronic load
- Maximum current: 150 A
- Maximum voltage: 50 V
- EIS capability from 10 μ Hz to 10 kHz
- EC-Lab[®] software with up to 50 techniques
- Built-in research grade potentiostat / galvanostat

ELECTRONIC LOAD

Cell control

Connection	5 terminal leads
Compliance	50 V range / 10 V range
Maximum current	150 A
Maximum potential	50 V
Minimum Potential	1 V @ 150 A
Maximum power	2 kW
Rise Time	< 3 ms

Measurement

Current accuracy	< 0.5 % FSR*
Current noise (peak to peak 0-100 kHz)	< 0.05 % FSR*

Electrometer

Inputs	3 potential measurements
Impedance	10^{10} Ohms

Auxiliary Inputs / Outputs

1 security input to open circuit
1 emergency stop push button

General

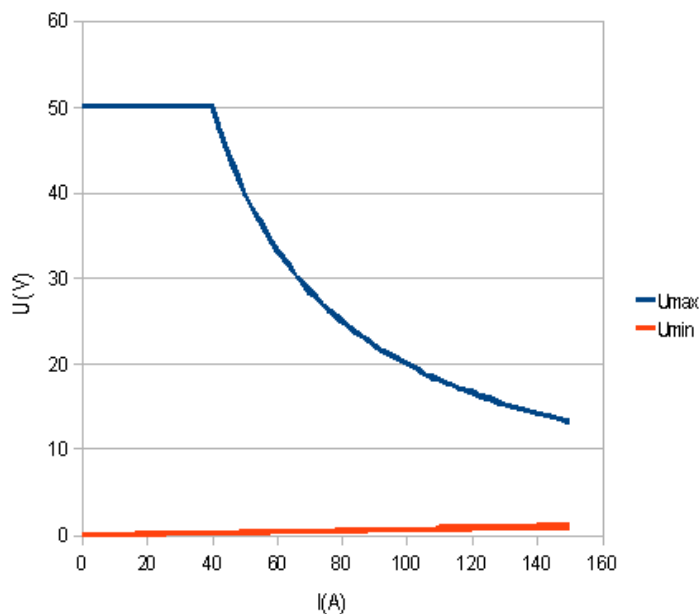
Dimensions, weight	260 x 495 x 465 (mm, H x W x D), 23 kg
Power	85-264 V, 47-440 Hz

IMPEDANCE (EIS)

Impedance

Frequency range	10 μ Hz to 10 kHz
Amplitude	1 mVpp to 5 Vpp with load 1 mVpp to 1 Vpp without load 0.1 % to 50 % of the current range
Accuracy	2 %, 2°

OPERATING AREA



OPTION: SAM-50

To be added to a multichannel system to perform measurements up to 50 V
For 5 channel boards

Sensor Adapter Module - 50 V

Input voltage	0-50 V
Output voltage	-/+10 V
Common rejection mode	70 dB
Accuracy	0.3% FSR*
Bandwidth	220 kHz
Slew rate	2 V/ μ s
Rise/Fall Time	1 μ s
Input Impedance	400 kOhms

*FSR: Full Scale Range
Specifications subject to change



Bio-Logic SAS
1, rue de l'Europe
38640 CLAIX – France
Tel: +33 476 98 68 31
Fax: +33 476 98 69 09
www.bio-logic.info



Bio-Logic USA, LLC
P.O.Box 30009
Knoxville TN 37930 - USA
Tel: +1 865 769 3800
Fax: +1 865 769 3801
www.bio-logic.us