SP-300/VSP-300/VMP-300 boosters

From 1 pA to 150 A and from 5 V to 48 V, choose your configuration!

- ±1 A/±48 V
- ±2 A/±30 V
- ±4 A/[-3;14] V
- ±10 A/[0;5] V

A range of boosters has been designed to increase the current and the voltage specifications of the SP-300, VSP-300 and VMP-300. Four models are available: 1 A/48 V, 2 A/30 V, 4 A/14 V and 10 A/5 V.

Depending on the instrument chassis (number of slots available), several similar boosters can be connected in parallel to expand the maximum current of the potentiostat/galvanostat. This feature is available for the 2 A, 4 A and 10 A boosters. Up to 15 boosters of 10 A can be put in parallel in a VMP-300 chassis to achieve 150 A.

Each boosters kit is comprised of a booster board and power supply board. Due to the modularity of the Bio-Logic chassis, the instrument configuration can be easily changed as needed on-site by the end-user.

The EC-Lab® software package will automatically and immediately detect a new configuration.

Bio**Logic**
Science **Instruments**

APPLICATIONS

- Batteries
- Supercapacitors
- Fuel cells
- Electroplating
- Materials
- EIS measurements

Specifications

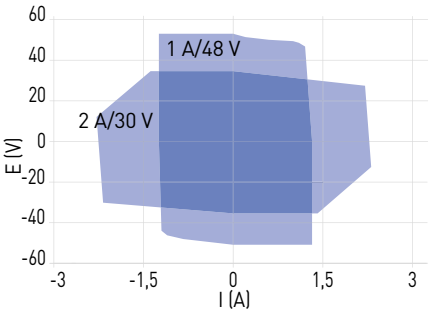
Hardware specifications

Boosters	1 A/48 V	2 A/30 V	4 A/14 V	10 A/5 V
Compliance voltage	±49 V	±30 V	-3 V ; +14 V	0 ; +5 V
Control voltage	±48 V	±30 V	-3 V ; +10 V	0 ; +5 V
Compliance current	±1 A	±2 A	±4 A	±10 A
Current accuracy	0.1% range	0.1% range	0.1% range	0.3% range
EIS frequencies	10 µHz - 2 MHz	10 µHz - 1 MHz	10 µHz - 1 MHz	10 µHz - 1 MHz
Bandwidth (-3 dB)	>2 MHz	>3 MHz	>4 MHz	>8 MHz
Slew rate (no load)	>15 V/µs	50 V/µs	50 V/µs	50 V/µs
Rise/fall time (no load)	<250 ns	<200 ns	<200 ns	<200 ns
Floating mode	yes	yes	yes	yes
Parallel ability	no	yes	yes	yes

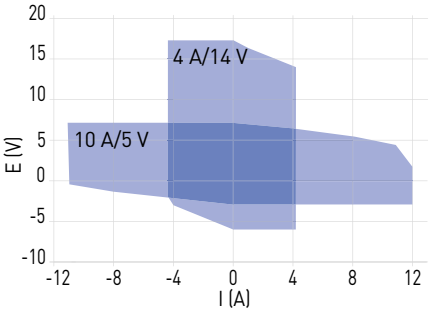
Pictures and specifications subject to change

Operating areas

1 A/48 V and 2 A/30 V

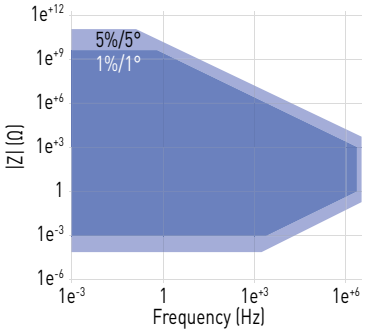


4 A/14 V and 10 A/5 V

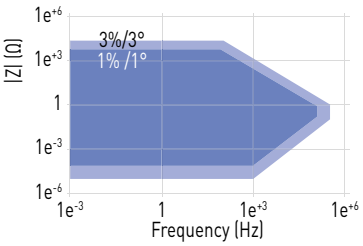


EIS contour plot

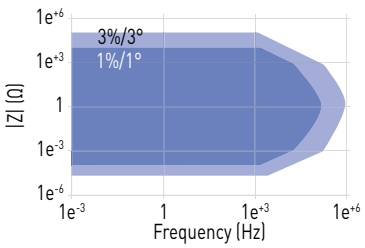
1 A/48 V



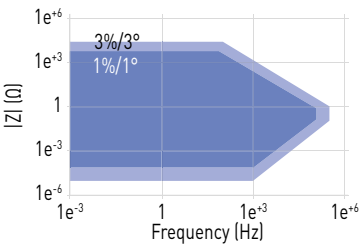
2 A/30 V



4 A/14 V



10 A/5 V



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