

# ZIVE ZB Series Power Boosters



ZB3 & ZB2 Series

- For high voltage/high current application
- Modular type design
- EIS capability
- Sine wave simulation available
- Simple operation and accurate result
- Safety features for user and instrument itself

## High Power Booster for high power electrochemical application

### Boost Up Your System . . .

- Fuel Cell
- Battery
- Super Capacitor
- Corrosion
- Plating
- Bulk Electrolysis
- Electrosynthesis
- Electrodeposition

The ZIVE ZB series are compatible with;

- single channel instrument :  
ZIVE SP1, ZIVE SP2, ZIVE SP5, ZIVE SP5H, ZIVE PP1e
- dual channel instrument :  
ZIVE BP2A, ZIVE BP2C
- multichannel instrument :  
ZIVE MP2A, ZIVE MP2C, ZIVE MP5

A power booster became a must have item for applications that require high power (high current and/or high voltage), such as automotive lithium batteries, super capacitors, fuel cell stacks, corrosion, electrosynthesis, plating, electrodeposition, bulk electrolysis, etc. Our new ZIVE ZB series boosters will be the best choice to meet market demand.

The ZIVE ZB series boosters are a new generation of single or multi-channel high current instrumentation and they are designed to increase the maximum current and/or maximum voltage of ZIVE series potentiostat/galvanostat.

The ZIVE ZB series boosters have full dc capabilities and are ideal for a wide range of electrochemical applications including high speed voltage/current pulse techniques. And impedance analysis techniques such as single- and multi-sine and HFR test, etc. are also available. Wide frequency ranges covering 10uHz to 1kHz(10kHz) depending on system power enables user to characterize energy storage devices and electrochemical cells over their full frequency range.

This ZIVE ZB series boosters are designed as stand alone type or rack mounted type and have multiple booster modules placed inside it. The power capability can be growing by adding module units to the existing system (factory configuration).

# Specification

| Housing | Model   | Max. V | Max. I (>-2V) | Max. I (Bipolar) | Power Dissipation(Watt) |
|---------|---|--------|---------------|------------------|-------------------------|
| ZB1     | ZB530B  | 5V     |               | 30A              | 450                     |
|         | ZB1020B   | 10V    |               | 20A              | 480                     |
|         | ZB2015U/2010B   | 20V    | 15A           | 10A              | 435/480                 |
|         | ZB409U/405B   | 40V    | 9A            | 5A               | 477/480                 |
| ZB2     | ZB560B  | 5V     |               | 60A              | 900                     |
|         | ZB1040B   | 10V    |               | 40A              | 960                     |
|         | ZB2030U/2020B   | 20V    | 30A           | 20A              | 870/960                 |
|         | ZB4020U/4010B   | 40V    | 20A           | 10A              | 900/960                 |
| ZB3     | ZB590B  | 5V     |               | 90A              | 1,350                   |
|         | ZB1060B   | 10V    |               | 60A              | 1,440                   |
|         | ZB2050U/2030B   | 20V    | 50A           | 30A              | 1,450/1,440             |
|         | ZB4025U/4015B   | 40V    | 25A           | 15A              | 1,325/1,440             |
| ZB4     | ZB5120B   | 5V     |               | 120A             | 1,800                   |
|         | ZB1080B   | 10V    |               | 80A              | 1,920                   |
|         | ZB2060U/2040B   | 20V    | 60A           | 40A              | 1,740/1,920             |
|         | ZB4035U/4020B   | 40V    | 35A           | 20A              | 1,855/1,920             |
| ZBR2    | ZB5200B   | 5V     |               | 200A             | 3,000                   |
|         | ZB10160B  | 10V    |               | 160A             | 3,840                   |
|         | ZB20120U/2080B  | 20V    | 120A          | 80A              | 3,480/3,840             |
|         | ZB4070U/4040B   | 40V    | 70A           | 40A              | 3,710/3,840             |
| ZBR3    | ZB20180U/20120B   | 20V    | 180A          | 120A             | 5,220/5,760             |
|         | ZB40100U/4060B  | 40V    | 100A          | 60A              | 5,300/5,760             |
| ZBR4    | ZB20160B  | 20V    |               | 160A             | 7,680                   |
|         | ZB40150U/4080B  | 40V    | 150A          | 80A              | 7,950/7,680             |
| Rack    | Consists of several ZB2, ZB3 or ZB4 models. Max. 200A, Max. 40V |        |               |                  |                         |

Model Name \*\*\*\*B is for bipolar type, \*\*\*\*U is for unipolar type (minimum voltage -2V).

## Control & Measurement

|                   |  |
|-------------------|--|
| Maximum Voltage   | 40V                                    |
| Maximum Current   | 200A                                   |
| Minimum Frequency | 10uHz                                  |
| Maximum Frequency | 1kHz ~ 10kHz (depending on power)      |
| Current Range     | Single                                 |
| Voltage Range     | Single                                 |
| Input Impedance   | 10 <sup>13</sup> Ohm                   |
| Accuracy          | 0.05% ~ 0.1% f.s. (depending on power) |
| Resolution        | 16bit                                  |
| Rise Time         | 5usec ~ 500usec (depending on power)   |
| Cooling Method    | Forced air flow                        |
| Data Acquisition  | >50usec                                |

\* This booster needs ZIVE workstation

The specifications are subject to change without notice.



WonATech Co., Ltd.  
7 Neunganmal 1-gil, Seocho-gu,  
Seoul, 06801, Korea  
Tel: +82-2-578-6516 Fax: +82-2-576-2635  
e-mail: sales@wonatech.com  
website: www.wonatech.com

Designed by  
**ZIVE LAB**  
<http://www.zivelab.com>

Local Distributor

