ZIVE ZB Series
Power Boosters

- ***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***

ZB3 & ZB2 Series

High Power Booster
for high power electrochemical application

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 caharacterize 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).

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

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	Booster max current or workstation's internal current ranges
Voltage Range	Booster's max voltage, x1, x0.1, x0.01 (3 ranges)
Input Impedance	10^{13}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 Aquisition	>50usec
* This booster needs ZIVE workstation	

Rack type

ZB3 Series

The specifications are subject to change without notice.

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