ZB

±300V~±2kV
1W~3W
HIGH VOLTAGE AMPLIFIER, THROUGH ZERO HIGH VOLTAGE POWER SUPPLY

wisman®
High voltage power supply
威思曼高压电源

ISO9001:2015

APPLICATION SPECIFIC

- OUTPUT VOLTAGE 0~2Vdc or p-p value ac
- REVERSAL RATE 50V/us
- IN-PHASE PROPORTIONAL AMPLIFIER
- FOUR QUADRANT OUTPUT DRIVES EITHER CAPACITIVE LOADS
- CLOSED LOOP SYSTEM , LOW NOISE , HIGH PRECISION
- SHORT CIRCUIT PROTECTION FUNCTION
- CAN BE USED AS DC POWER SUPPLY

INTRODUCTION

Wisman ZB series is a high stability, high power high voltage amplifier power supply for industrial and scientific applications. The ZB series is a solid state design with high reversal rate, wide bandwidth and low noise. Four quadrant power supply, suitable for reactive or resistive load. ZB series belongs to the in-phase amplifier. Prevents overvoltage or overcurrent caused by short circuit of active load or output to ground. Precision voltage and current display monitors high voltage output and load current.

APPLICATION

Media research, electron beam and ion source, electrostatic monitoring(including ion beam control), spark controller, electrostatic suspension, high voltage cable test and high pressure component testing, research, including dielectric barrier discharge plasma electrostatic deflection, electrophoresis, electrorheological fluids, electro-optic modulation, polarization of materials, ac or dc bias ion beam steering, particle accelerators, mass spectrometer, materials characterization, ferroelectri, atmospheric plasma, dielectric barrier discharge.

SELECTION TABLE

OUTPUT VOLTAGE(Vdc)	OUTPUT CURRENT(mA)	MODEL	RESPONSE FREQUENCY(-3db)		SWITCHING RATE(FULL RATE)
			FULL SCALE	10% OF FULL SCALE	
-300~+300	±10	ZB0.3R3	DC~12kHz	DC~24kHz	50V/us
-600~+600	±5	ZB0.5R3	DC~6kHz	DC~12kHz	
-1kV ~1kV	±3	ZB1R3	DC~3.5kHz	DC~7kHz	
-1.5k~+1.5k	±2	ZB1.5R3	DC~2.5kHz	DC~5kHz	
-2kV~+2kV	±1.5	ZB2R3	DC~2.5kHz	DC~5kHz	

FEATURES

Parameter	Describe
Input	24VDC ±0.5, Maximum current 2A
Output voltage control	0~10Vdc or p-p value AC zin25KΩ
DC offset voltage	＜±2V
Output noise	＜0. 5Vrms
Reversal	＞50V/us(tapical value, 10%~90%)
Stability	＜50ppm/hr, non-cumulative
Temperature coefficient	≤25ppm/℃
Voltage monitor	display scale 1V/200V, accuracy:±1%
Current monitor	display scale 1V/0.1mA , accuracy:±1%
Dimensions	8.07″ D×3.94"W×1.69"H (205mm×100mm×43mm)。
Weight	1.5kg
BNC connector	voltage monitor, high voltage output

Sales@wismanhv.com
www.wismanhv.com

INTERFACE INFORMATION

Port	Information	Describe
1	+24Vdc input	+24Vdc input, Maximum current 2A
2	Power GND	power GND
3	-10V	-10V reference voltage
4	Voltage programming	0~10Vdc input or 0~10 p-p value ac input
5	+10V	+10V reference voltage
6	HS	hanging when high voltage off, grounding when the high voltage on
7	Current monitor	0~10V corresponds to 0~1mA
8	NC	no signal

DIMENSION

Unit : inch(mm)