



ISO9001:2015

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- **OUTPUT VOLTAGE ±50V~±2KV**
- **THROUGH ZERO VOLTAGE PROGRAMMING & SETTING**
- **ARBITRARY WAVEFORM HV AMPLIFIER**
- **FAST REVERSING, SLEWING & SETTING**
- **HIGH STABILITY, LOW TEMPERATURE,**
- **LOW RIPPLE**
- **ARC AND SHORT CIRCUIT PROTECTION**
- **OEM CUSTOMIZATION AVAILABLE**



INTRODUCTION

Wiseman's ZA series is a unique module, extending the operation and versatility of Applied Kilo-volts High Precision series. The ZA units feature fast slewing and setting times, together with the ability to slew cleanly through zero .ZA can be used as Amplifier at arbitrary wave input control. Low temperature coefficient<10ppm and High stability. ZA series are suitable for both through zero high voltage and HV amplifiers

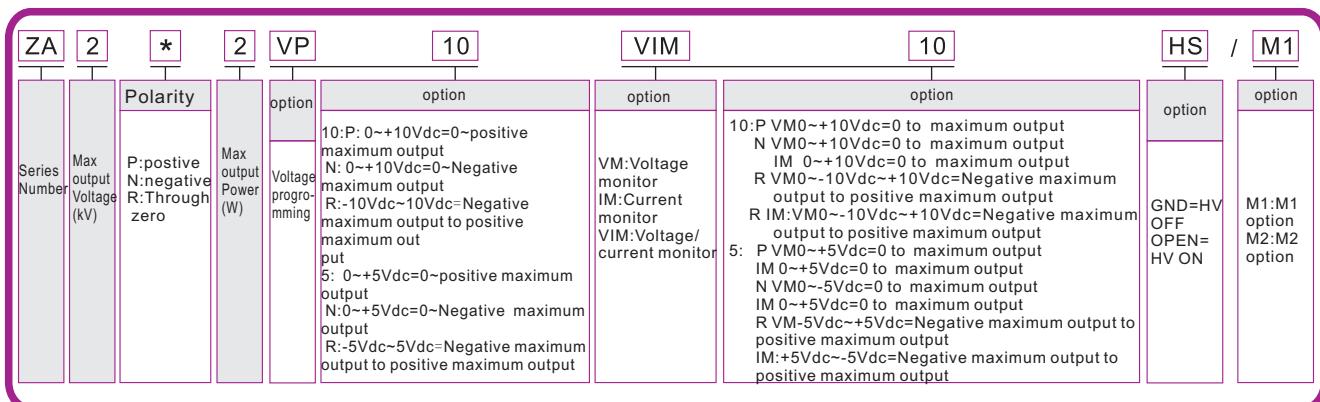
TYPICAL APPLICATION

Arbitrary wave amplifier, High voltage amplifier, Piezoceramics drive, Electrostatic deflexion /focus, Provides power to double lenses, Mass spectrometry, Electron microscope, Electrostatic chuck, Electron beam and Ion Beam, MEMS device, Electrostatic active polymer, Electron hydrodynamic, Laser and electrooptic modulating, Electrophoresis, Electro spinning.

SELECTION TABLE

kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL
0.05	20	1	ZAO.05*1	0.4	2.5	1	ZAO.4*1	1	1	1	ZA1*1
	40	2	ZAO.05*2		5	2	ZAO.4*2		2	2	ZA1*2
0.1	10	1	ZAO.1*1	0.5	2	1	ZAO.5*1	1.25	0.8	1	ZA1.25*1
	20	2	ZAO.1*2		4	2	ZAO.5*2		1.6	2	ZA1.25*2
0.2	5	1	ZAO.2*1	0.6	1.67	1	ZAO.6*1	1.5	0.67	1	ZA1.5*1
	10	2	ZAO.2*2		3.33	2	ZAO.6*2		1.33	2	ZA1.5*2
0.3	3.33	1	ZAO.3*1	0.8	1.25	1	ZAO.8*1	2	0.5	1	ZA2*1
	6.67	2	ZAO.3*2		2.5	2	ZAO.8*2		1	2	ZA2*2

SELECTION EXAMPLE



ZA

**±50V~±2KV
1W~2W
HIGH VOLTAGE AMPLIFIER,
THROUGH ZERO HIGH VOLTAGE
POWER SUPPLY**



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

APPLICATION SPECIFIC

FEATURES

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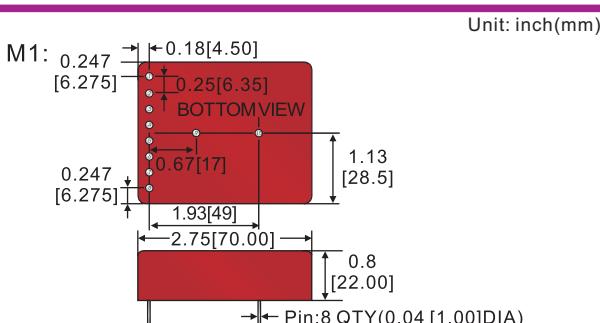
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Parameter	Describe
Input	+24Vdc±10%,420mA maximum
Output	±0.05kV~±2kV,optional
Stability	0.001% per hour after half an hour's warm up
Temperature coefficient	≤10ppm/°C .
Ripple	0.001%p-p,under the condition of rated voltage
Current monitor	+10Vdc~-10Vdc=negative maximum output to positive maximum output, accuracy:±1%
Voltage monitor	-10Vdc~+10Vdc=negative maximum output to positive maximum output, accuracy:±1%
Voltage remote control	External 20KΩ potentiometer or remote control voltage(Vp-in)-10Vdc~+10Vdc
Voltage load regulation	0.01%(no load to full load)
Voltage line regulation	±0.001% (input voltage changes ±10%)
Operation temperature	0°C~+40°C .
Storage temperature	-40°C~+100°C .
Cooling	Convection cooling
Humidity	20%~95%RH, no condensing
Dimensions	0.87" H x 2.25" W x 2.75" D (22.00mm x 57.00mm x70.00mm). Weight 150g.

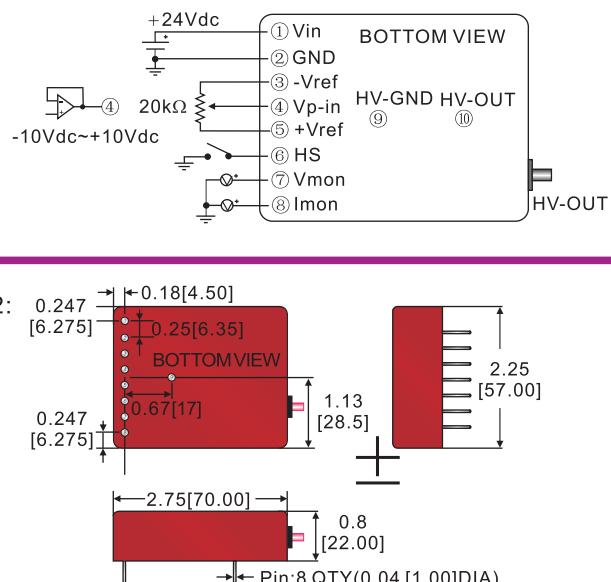
PIN INFORMATION

PIN	DESCRIBE	PIN	DESCRIBE
1	Power input,+24Vdc±10%	6	HS
2	Power GND	7	Voltage monitor
3	-10Vdc reference Voltage	8	Current Monitor
4	Voltage programming	9	HV GND
5	+10Vdc reference Voltage	10	HV output

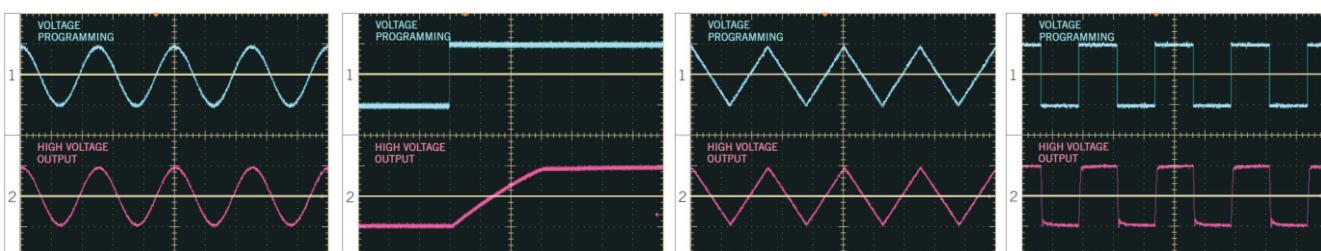
DIMENSION



WIRING DIAGRAM



ZA SERIES WAVE FORMS SAMPLE



If you want higher voltage, larger power, high frequency through zero high voltage power supply, high voltage amplifier, 4 quadrant high voltage power supply, please call us.