



ISO9001:2015





- OUTPUT VOLTAGE 0~±10kVdc or PEAK AC
- OUTPUT CURRENT 0~±40mAdc or120mA PEAK AC
- REVERSE RATE 900V/µs
- SIGNAL BANDWIDTH: DC to 23kHZ
- DC VOLTAGE GAIN: 1000V/V
- IN-PHASE PROPORTIONAL AMPLIFIER
- FOUR-QUADRANT OUTPUT FOR DRIVING CAPACITIVE LOAD
- CLOSED-LOOP SYSTEM、LOW NOISE、HIGH ACCURACY
- SHORT CIRCUIT PROTECTION FUNCTION
- CAN BE USED as DC POWER SUPPLY

## INTRODUCTION

Wisman AMU series is a high stability, high power high voltage amplifier power supply for industrial and scientific applications. AMU series is a solid state design with high slew rate, wide bandwidth and low noise. Four quadrant power supply, suitable for reactive or resistive load. AMU is an in-phase amplifier with an amplification factor of 1000. AWU Prevents overvoltage or overcurrent caused by short circuit of active load or output to ground. Precision voltage and current can be closed loop monitoring of high voltage output and load current feedback signals.

## TYPICAL APPLICATION

Electrostatic deflection, Electrophoresis, Electrorheological fluids, Electro-optic modulation, Material poling, AC or DC biasing, Ion beamsteering, Particle accelerators, Mass spectrometers, Material characterization, Ferroelectrics, Atmospheric plasma, Dielectric barrier discharge

## **SPECIFICATIONS**

	DESCRIPTION
	220Vac±10%,max current 5A,(110Vac optional,Max current 10A).
)	0 to ±10 kV DC or peak AC
t	0 to $\pm$ 40 mADC or 120mApeak AC(Ac for1ms,must not exceed 40mArms max)
e controller	0 to $\pm$ 10 V DC orpeak AC,Zin=25k $\Omega$
ain	1000V/V
C voltage	<0.1%。
age	$<\pm 2V$
	<0.5Vrms
	<900V/us(typical, 10%~90%)
andwidth (-3db)	DC to 23kHZ
ndwidth	DC to 9kHZ
)	
ndwidth (-3db)	DC to 25kHZ
	<50ppm/hr, noncumulative
coefficient	≤25ppm/℃。
or	Ratio:1:1000; Accuracy: $<\pm$ 0.1%; Offset voltage: $<\pm$ 2mV; Noise: $<$ 10mVrms; Zout= $47\Omega$
or	Ratio: 1V/12mA; Accuracy: $<\pm$ 0.1%; Offset voltage: $<\pm$ 10mV; Noise: $<$ 10mVrms; Zout=47 $\Omega$
Local	Individual push-button switch
Remote	TTL high (oropen) turns offhigh-voltage output. TTL lowturns on high-voltage output.
stment	Panel potentiometer is used tooptimize the ACresponse for various load parameters.
rip	Switch selectable for either limitor trip.Potentiometer is used toadjust limit or triplevel from 0 to $\pm$ 120 mA
	e controller in C voltage age andwidth (-3db) ndwidth ) ndwidth (-3db) coefficient or Local Remote stment



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## **SPECIFICATION**

PARAMETER	DESCRIPTION
Out of Regulation Status	Illuminates and a TTL lowis provided when unit fails to produce required HV output such as during current limit or short circuit load conditions
Limit/Trip status	Illuminates and a TTL low is provided when the high-voltage output is disabled due to the output current exceeding the current trip level, the detection of a high-voltage supply fault or the removal of the top cover
Dimensions	279mm×482mm×654mm(11X19x25.75)
Weight	25kg
HV connector	Wisman standard CA 30 connector with cable
BNC connector	Amplifier Input, Voltage Monitor, Current Monitor, Remote High Voltage ON/OFF, Out of Regulation Status, Fault/Trip Status

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**DIMENSIONS:** mm[inch]



