AMW

0~±20kV
0~400W
FOUR QUADRANT HVPS
PRECISION HV AMPLIFIER

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

ISO9001:2015

- OUTPUT VOLTAGE 0~±20kVdc or PEAK AC
- OUTPUT CURRENT 0~±40mAdc or 20mA PEAK AC
- REVERSE RATE 450V/μs
- SIGNAL BANDWIDTH: DC to 75kHZ
- DC VOLTAGE GAIN: 2000V/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 AMW series is a high stability, high power high voltage amplifier power supply for industrial and scientific applications. AMW 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. AMW is an in-phase amplifier with an amplification factor of 2000. AWW 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 beam steering, Particle accelerators, Mass spectrometers, Material characterization, Ferroelectrics, Atmospheric plasma, Dielectric barrier discharge

SPECIFICATIONS

PARAMETER		DESCRIPTION
Input		220Vac±10%，max current 5A，(110Vac optional，Max current 10A).
Output voltage		0 to ±20 kV DC or peak AC
Output current		0 to ±20 mA DC or 120mA peak AC(\
Output voltage controller		0 to ±10 V DC or peak AC,Zin=25kΩ
DC Voltage Gain		1000V/V
Acurracy of DC voltage		＜0.1%。
DC offset voltage		＜±2V
Output noise		＜1.5Vrms
Slew rate		＜450V/us(typical，10%~90%)
Large singnal bandwidth（-3db）		DC to 7.5kHZ
Large signal bandwidth（1% distortion）		DC to 3.5kHZ
Small signal bandwidth（-3db）		DC to 20kHZ
Stability		＜50ppm/hr， noncumulative
Temperature coefficient		≤25ppm/℃。
Voltage monitor		Ratio:1:2000；Accuracy:＜±0.1%；Offset voltage:＜±2mV；Noise:＜10mVrms；Zout=47Ω
Current monitor		Ratio:0.5V/mA；Accuracy:＜±0.1%；Offset voltage:＜±10mV；Noise:＜10mVrms；Zout=47Ω
HV ON/OFF	Local	Individual push-button switch
	Remote	TTL high (or open) turns off high-voltage output. TTL low turns on high-voltage output.
Dynamic Adjustment		Panel potentiometer is used to optimize the AC response for various load parameters.
Current limit/Trip		Switch selectable for either limit or trip.Potentiometer is used to adjust limit or trip level from 0 to ±20 mA

Sales@wismanhv.com
www.wismanhv.com

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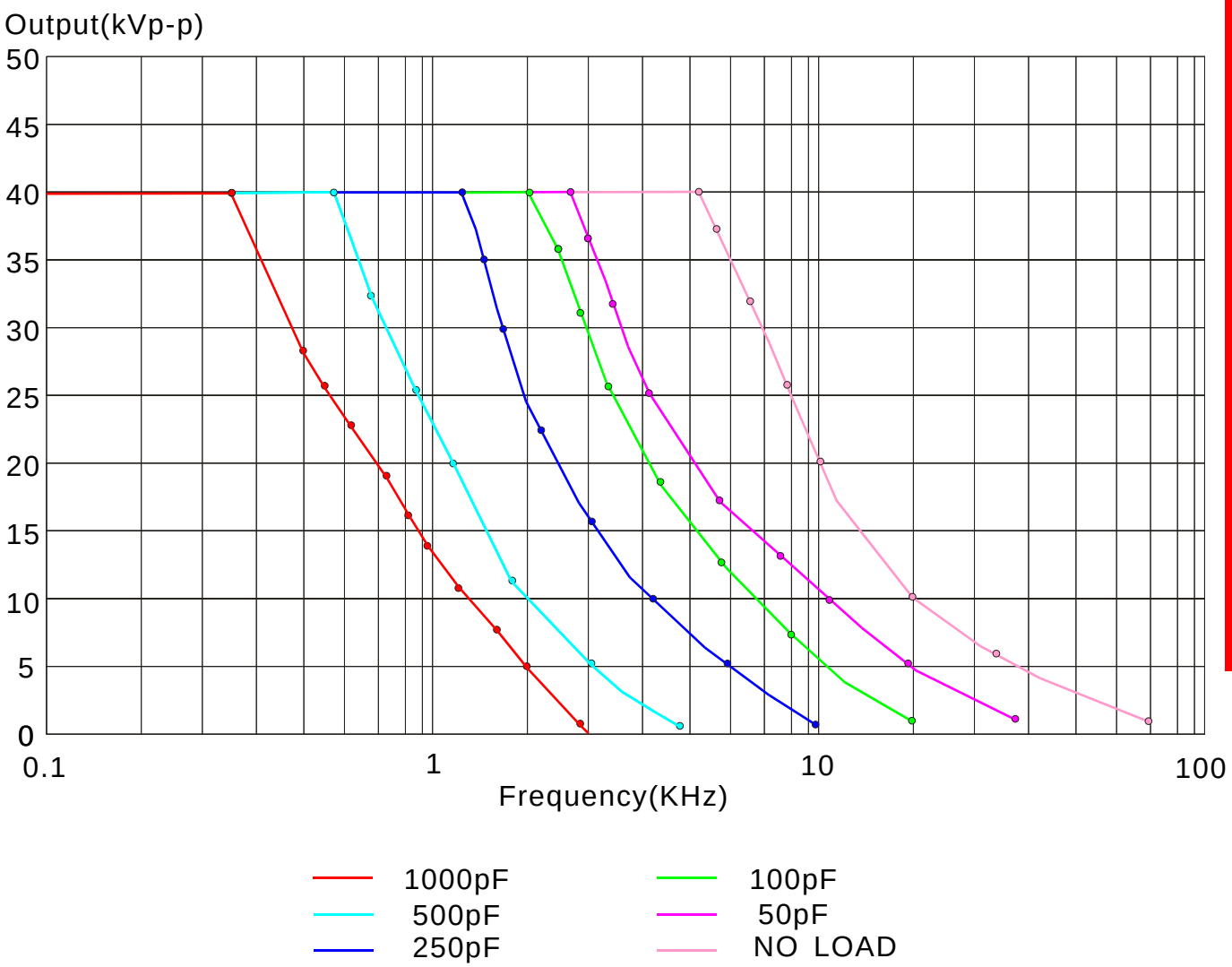
SPECIFICATION

PARAMETER	DESCRIPTION
Out of Regulation Status	Illuminates and a TTL low is 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	265 mm H x 483 mm W X 557 mm D(10.43" H x 19" W x 22" D)
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

DIMENSIONS: mm[inch]



DIMENSION： mm[inch]