AMR

0~±10kV
0~20W
FOUR QUADRANT HVPS
PRECISION HV AMPLIFIER

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

ISO9001:2015

HIGH VOLTAGE AMPLIFIER

- OUTPUT VOLTAGE RANGE: 0~±5KVDC or PEAK AC
- OUTPUT CURRENT 0~±2mA DC OR PEAK AC
- SLEW RATE：>35V/US
- LARGE SIGNAL BANDWIDTH（-3DB）>1.2KHZ
- DC VOTLAGE GAIN:1000V/V
- IN-PHASE RATIO AMPLIFIER
- FOUR QUADRANT OUTPUT DRIVES EITHER CAPACITIVE OR RESISTIVE LOADS
- CLOSED LOOP SYSTEM, LOW NOISE, HIGH PRECISION
- SHORT CIRCUIT PROTECTION FUNCTION
- CAN BE USED AS DC POWER SUPPLY

INTRODUCTION

Wisman AMR series is a high stability, high power high voltage amplifier power supply for industrial and scientific applications. The AMR is a solid state design with high reversal rate, wide bandwidth and low noise. Four quadrant power supply, suitable for reactive or resistive load. AMR belongs to the in-phase amplifier, the amplification factor is 1000. 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. The reversal rate depends on different loads, such as high capacitive or resistive loads.

APPLICATIONS

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 , ferroelectric, atmospheric plasma, piezoelectric ceramics, dielectric barrier discharge.

SELECTION EXAMPLE

AMR	10	*	20
Series Number	Maximum output voltage (kV)	Output polarity P: Positive N: Negative R: Reversible	Maximum output power (W)

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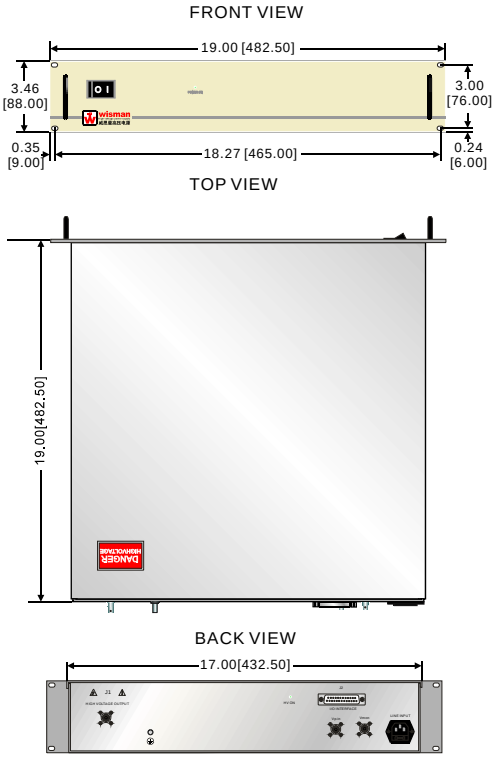
SPECIFICATION

PARAMETER	DESCRIPTION
Input	220Vac±10%, Max current 1A, (110Vac optional, Max current 2A).
Output voltage	0 to ±10 kV DC or peak AC
Output current	0 to ±2mA DC or peak AC
Output voltage control	0 to ±10 V DC or peak AC,Zin=25kΩ
Dc voltage gain	1000V/V
Dc voltage gain accuracy	＜0.1%。
Dc offset voltage	＜±2V
Output noise	＜0.5Vrms
Slew rate	>35V/us(Typical values，10%~90%)
Large signal bandwidth (-3dB)V	DC to 1.2kHZ
Large signal bandwidth (1% distortion)	DC to 600HZ
Small signal bandwidth（-3db）	DC to 10kHZ
Stability	＜50ppm/hr，noncumulative
temperature coefficient	≤25ppm/℃。
Voltage monitor	Monitor ratio:1:1000；precision:＜±0.1%,offset voltage:＜±2mV,noise:＜10mVrms；Zout=47Ω
Current monitor	Monitor ratio:1V/200uA；precision:＜±0.1%；offset voltage:＜±10mV；noise:＜10mVrms；Zout=47Ω
Operating temperature and humidity	0~40° C,0~85%，No condensation
Overall dimensions	88 mm H x 210 mm W x 365 mm(3.46" H x 8.27" W x 14.37" D)。
Weight	7kg

AMR ANALOG INTERFACE(OPTIONAL)

J2	Singal	Parameter
1	Vmon, voltage monitor	0~±10Vdc=0~100%Rated output,Zout=47W
2	GND	Connect chassis ground
3	N/C	N/C
4	N/C	N/C
5	+12Vdc	+12Vdc output
6	+12Vdc interlock	+12Vdc closed,connect with pin 5,no interlock
7	GND	GND
8	N/C	N/C
9	Program return GND	Program return GND
10	Vp-in，Voltage program	0~±10Vdc=0~100% rated output，Zin=25kW
11	N/C	N/C
12	N/C	N/C
13	N/C	N/C
14	N/C	N/C
15	N/C	N/C
16	N/C	N/C
17	Enable	High=On
18	N/C	N/C
19	N/C	N/C
20	N/C	N/C
21	GND	GND
22	Remote off ground	Remote off ground
23	Remote=turn off	Remote turn off,connect with pin22,Relieve turn off
24	N/C	N/C
25	GND	GND

MECHANICAL DIMENSIONS



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