



- OUTPUT VOLTAGE RANGE: 0~±10kVDC or PEAK AC
- OUTPUT CURRENT 0~±10mADC OR PEAK AC
- SLEW RATE>700V/ μ S
- LARGE SIGNAL BANDWIDTH DC>9.5KHZ
- 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

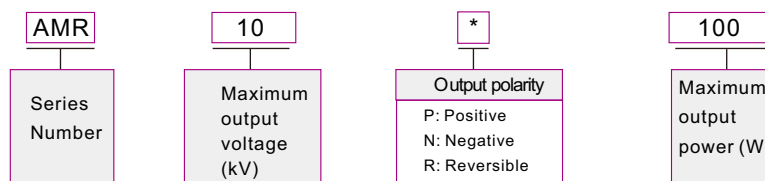
INTRODUCTION

Wisman AMT series High voltage power amplifiers for industrial and research applications. All solid state high voltage insulation design, can achieve high conversion rate, broadband and low noise operation. Four-quadrant active output absorbs or outputs current to a reactive or resistive load over the entire output voltage range. Wisman high voltage power supplies is essential for achieving accurate output response and the high rotation required for various loads, such as highly capacitive or reactive loads. The rate of change is critical. The amplifier is an in-phase amplifier.

APPLICATIONS

Ferroelectric tester, Piezoelectric elements and piezoelectric (ferroelectric) material polarization, electrostatic deflection, electrophoretic method, electrorheological fluid, electro-optic modulation, material polarization, AC or DC bias, ion beam steering, Particle Accelerator, Mass Spectrometer, Material characterization, ferroelectric, Atmospheric plasma, dielectric barrier discharge.

SELECTION EXAMPLE





SPECIFICATION

ISO9001:2015

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PARAMETER	DESCRIPTION
Input	220Vac±10%, Max current 3A.
Output voltage	0 to ±10 kV DC or peak AC
Output current	0 to ±10mA DC or 40mA peak AC for 1ms
Output voltage control	0 to ±10 V DC or peak AC, Z _{in} =20kΩ
Dc voltage gain	1000V/V
Dc voltage gain accuracy	Better than 0.1% of full scale
Dc offset voltage	<±2V
Output noise	<0.5Vrms
Slew rate	>700V/us(Typical values 10%~90%)
Large signal bandwidth(-3db)	DC to 19.5kHz
Large signal bandwidth(1% distortion)	DC to greater than 9.5kHz
Small signal bandwidth(3db)	DC to greater than 60kHz
Stability	<50ppm/hr, noncumulative
temperature coefficient	25ppm/°C
Voltage monitor	Monitor ratio: 1:1000; precision: <±0.1%, offset voltage: <±2mV, noise: <10mVrms; Z _{out} =47Ω
Current monitor	Monitor ratio: 0.025V/mA precision: >±0.5%; offset voltage: <±10mV; noise: <30mVrms; Z _{out} =47Ω
Operating temperature and humidity	0°C~40°C (32°F~104°F), 0~85% No condensation
Overall dimensions	190mm H x 432 mm W x 417 mm D (10.4" H x 19" W x 25" D)
Weight	14.9kg

AMT ANALOG INTERFACE(OPTIONAL)

J2	Singal	Parameter
1	V _{mon} , voltage monitor	0~±10Vdc=0~100%Rated output, Z _{out} =47Ω
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	V _{p-in} , Voltage program	0~±10Vdc=0~100%rated output Z _{in} =25kΩ
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 pin 22, Relieve turn off
24	N/C	N/C
25	GND	GND