



- AC/DC AC220V POWER SUPPLY
- RIPPLE VOLTAGE: 0.001% P-P
- STABILITY: 10ppm/1 Hr
- 10-CHANNEL INDEPENDENT OUTPUT, INDEPENDENT CONTROL, INDEPENDENT DISPLAY
- STANDARD RS-485 COMPUTER REMOTE CONTROL
- OVERVOLTAGE, ARC AND OUTPUT SHORT CIRCUIT PROTECTION VOLTAGE AND CURRENT REGULATION FUNCTIONS
- CAN BE CUSTOMIZED ACCORDING TO USER REQUIREMENTS

## INTRODUCTION

Wisman MSE series is a high-performance 19-standard rack-mounted 8-channel output high-voltage power supply, 8-channel independent start and stop, 8-channel independent control, 8-channel voltage and current independent display, the number of display digits is 4, and the output voltage and current of each channel It can be the same or different, and customers can order according to their needs. The MSE series has a complete protection system. It can be controlled remotely or locally, with voltage and current display on the front panel, overvoltage, overcurrent, short circuit protection, arc overtemperature protection and safety interlock functions at the high voltage output terminal. Wide range of adjustment and flexibility of multiple optional features.

## TYPICAL APPLICATIONS

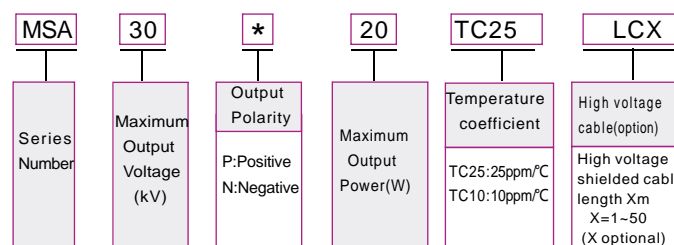
Mass spectrometry, Photomultiplier tubes, Solid state detectors, Piezoelectric crystal devices, Ultrasonic transducers, Micro channel plates, Spectroscopy, Scintillation counters, Electron multiplying detectors, Nuclear instruments, Electrophoresis, DNA sequencing, Counters, Electron beams, Ion beams, Electrostatic chuck, Voltage bias, Electron microscope, Precision lens, Image intensifier, Semiconductor test, Capacitor charging, Electrostatic spinning, Electrostatic discharge test ESD, Life science, Medical chemical industry, Scientific experiment, Industrial application.

## MSA SELECTION TABLE

kV	mA	P(W)	MODEL	RIPPLE(mVpp)	kV	mA	P(W)	MODEL	RIPPLE(mVpp)	kV	mA	P(W)	MODEL	RIPPLE(mVpp)
1	5.0	5	MSE1*5	10	3	1.67	5	MSE3*5	25	15	0.33	5	MSE15*5	100
	10.0	10	MSE1*10	10		3.33	10	MSE3*10	25		0.67	10	MSE15*10	100
	20.0	20	MSE1*20	25		6.67	20	MSE3*20	75		1.33	20	MSE15*20	370
2	2.5	5	MSE2*5	20	5	1.0	5	MSA5*5	30	20	0.25	5	MSE20*5	150
	5.0	10	MSE2*10	20		2.0	10	MSE5*10	30		0.5	10	MSE20*10	150
	10.0	20	MSE2*20	50		4.0	20	MSE5*20	120		1.0	20	MSE20*20	500
2.5	2.0	5	MSE2.5*5	25	10	0.5	5	MSE10*5	50	30	0.17	5	MSE30*5	250
	4.0	10	MSE2.5*10	25		1.0	10	MSE10*10	50		0.33	10	MSE30*10	250
	8.0	20	MSE2.5*20	60		2.0	20	MSE10*20	250		0.67	20	MSE30*20	1000

Note: 0 to max voltage, 0 to max power can be customized.

## MSA SELECTION EXAMPLE





**SPECIFICATIONS**

Parameter	Description
Input	AC220+10%, (AC110V optional) maximum current 10A.
Output	1kV~30kV optional.
Stability	Less than 10ppm every 1 hour after starting for half an hour, less than 100ppm/ 8 Hr
Temperature Coefficient	≤25ppm per degree C (can be customized 10ppm/°C)
Ripple	0.001% P-P
Output Voltage Accuracy	±2%
Voltage Control	Local: Internal multi-turn potentiometer to set voltage from 0 to full output voltage. Remote: 0 to +10Vdc proportional from 0 to full output voltage.
Current Control	Local: Internal potentiometer to set current between 0 and full output current. Remote: 0 to +10Vdc proportional from 0 to full output current.
Voltage Load Regulation	0.01%+500mV (no load to rated load)
Voltage Line Regulation	±0.01%+500mV (±10% change in input voltage)
Operating Temperature	0°C ~ 50°C
Storage Temperature	-40°C ~ 85°C
Humidity	20%~85% RH, non-condensing
Dimensions	176mm*483**483mm

**RS-485 DIGITAL INTERFACE**

J3	SIGNAL	J3	SIGNAL
1	N/C	6	N/C
2	N/C	7	RS-485B
3	N/C	8	N/C
4	N/C	9	RS-485A
5	N/C		