



- THE MAX NUMBER OF OUTPUT VOLTAGE CHANNELS IS 512
- EACH CHANNEL CAN BE USED AS AN INDEPENDENT POWER SUPPLY
- 1kV TO 30kV, 2W TO 20W
- HIGH STABILITY, ULTRA-LOW RIPPLE, LOW NOISE
- SUSPENDED GROUND
- STANDARD RS-485 CONTROL
- ARCING, CONTINUOUS SHORT CIRCUIT PROTECTION
- PANEL OR REMOTE CONTROL
- OEM CUSTOMIZATION AVAILABLE

## INTRODUCTION

Wisman's MSA is a multi-channel output high-voltage power supply system, the system can output up to 512 channels, and each channel can be used as an independent power supply after being disassembled independently. The system can individually control each channel through the front panel, and the front panel has the voltage and current display head of the channel; the system can also be remotely measured and controlled through a computer, and the RS-485 communication interface is standard. The unique linear power conversion technology ensures the ultra-low ripple of the system. This series of modules has protection functions such as overcurrent, arcing, and short circuit.

## TYPICAL APPLICATIONS

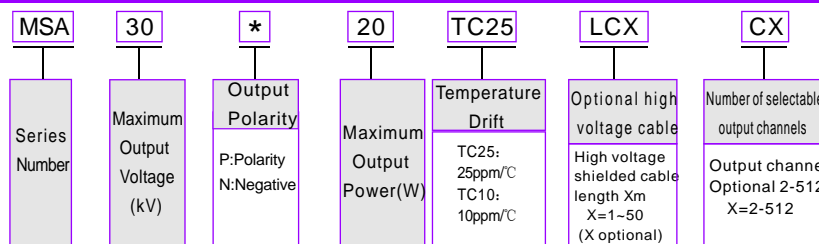
Mass spectrometry, Photomultiplier tubes, Solid state detectors, Piezoelectric crystal devices, Ultrasonic transducers, Micro channel plates, Spectroscopy, Scintillation counters, Electron multiplying detectors, Nuclear instruments, Electrophoresis, DNA sequencing, Counters, Electron beams, Ion beams, Electrostatic chuck, Voltage bias, Stand voltage test, Pulse power supply, 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	MSA1*5	10	3	1.67	5	MSA3*5	25	15	0.33	5	MSA15*5	100
	10.0	10	MSA1*10	10		3.33	10	MSA3*10	25		0.67	10	MSA15*10	100
	20.0	20	MSA1*20	25		6.67	20	MSA3*20	75		1.33	20	MSA15*20	370
2	2.5	5	MSA2*5	20	5	1.0	5	MSA5*5	30	20	0.25	5	MSA20*5	150
	5.0	10	MSA2*10	20		2.0	10	MSA5*10	30		0.5	10	MSA20*10	150
	10.0	20	MSA2*20	50		4.0	20	MSA5*20	120		1.0	20	MSA20*20	500
2.5	2.0	5	MSA2.5*5	25	10	0.5	5	MSA10*5	50	30	0.17	5	MSA30*5	250
	4.0	10	MSA2.5*10	25		1.0	10	MSA10*10	50		0.33	10	MSA30*10	250
	8.0	20	MSA2.5*20	60		2.0	20	MSA10*20	250		0.67	20	MSA30*20	1000

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

## MSA SELECTION EXAMPLE





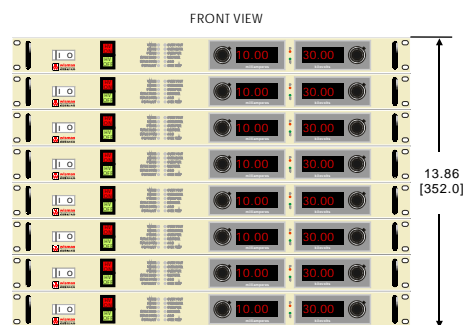
**SPECIFICATIONS**

Parameter	Description
Input	220Vac±5%, Input current <1A.
Output	1kV~30kV, A variety of high-voltage outputs are available.
Stability	<0.01% per one hours and <0.02% per 8 hours after 1/2 hour warm-up.
Temperature Coefficient	<25ppm/°C, optional 10ppm/°C (TC10).
Ripple	See MSA Selection example.
Output Voltage Accuracy	±2%.
Supply Voltage Control	1. The potentiometer on the power panel can adjust the output voltage from 0 to the rated output. 2. The computer communication control can adjust the output voltage from 0 to the rated output.
Supply Current Control	1. The potentiometer on the power panel can adjust the output current from 0 to the rated output. 2. The computer communication control can adjust the output current from 0 to the rated output.
Voltage Load Regulation	0.01% of output voltage no load to full load
Current Load Regulation	±0.01% for ±10% change in input voltage
Operating Temperature	0°C ~ 50°C.
Storage Temperature	-35°C ~ 85°C.
Humidity	20%~85% RH, non-condensing.
Dimensions	See MSA Mechanical Dimensions

**C MULTI-CHANNEL SYSTEM**

**RS-485 INTERFACE COMMUNICATION<sup>D</sup>**

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		



**MSA DIMENSIONS**

