



- OUTPUT VOLTAGE CHANNELS 2 MAX
- EACH CHANNEL CAN BE USED INDEPENDENTLY
- EACH CHANNEL FROM 1kV~30kV,5W~20W
- HIGH STABILITY, ULTRAL-LOW RIPPLE, LOW NOISE
- STANDARD RS-485 CONTROL
- FLOATING GROUND
- ARC and SHORT CIRCUIT PROTECTION
- FRONT PANEL CONTROL OR CONTROL REMOTELY
- OEM CUSTOMIZATION AVAILABLE

Wisman's MSC 2-channel output high-voltage power supply system. Each channel can be used and controlled by MSC system independently via front panel, providing with voltage and current monitor on the front panel. These MSC systems are specifically designed with proprietary linear power conversion techniques to provide exceptionally low ripple and noise. MSA system can be controlled remotely, with RS-485 interface, overcurrent, arcing and short circuit protection options.

### TYPICAL APPLICATIONS

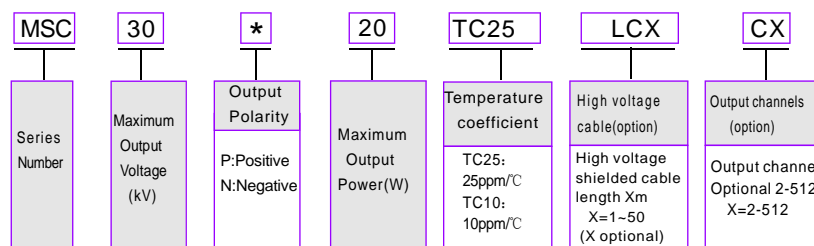
Mass spectrometry, Photomultiplier tubes, Solid state detectors, Piezoelectric crystal devices, Ultrasonic transducers, Micro channel plates, Spectroscopy, Scintillation counters, Electron multiplying detectors, Nuclear instruments, Electrophoresis, DNA sequencing, Counters, Electron beams, Ion beams, 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.

### MSC 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	MSC1*5	10	3	1.67	5	MSC3*5	25	15	0.33	5	MSC15*5	100
	10.0	10	MSC1*10	10		3.33	10	MSC3*10	25		0.67	10	MSC15*10	100
	20.0	20	MSC1*20	25		6.67	20	MSC3*20	75		1.33	20	MSC15*20	370
2	2.5	5	MSC2*5	20	5	1.0	5	MSC5*5	30	20	0.25	5	MSC20*5	150
	5.0	10	MSC2*10	20		2.0	10	MSC5*10	30		0.5	10	MSC20*10	150
	10.0	20	MSC2*20	50		4.0	20	MSC5*20	120		1.0	20	MSC20*20	500
2.5	2.0	5	MSC2.5*5	25	10	0.5	5	MSC10*5	50	30	0.17	5	MSC30*5	250
	4.0	10	MSC2.5*10	25		1.0	10	MSC10*10	50		0.33	10	MSC30*10	250
	8.0	20	MSC2.5*20	60		2.0	20	MSC10*20	250		0.67	20	MSC30*20	1000

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

### MSC SELECTION EXAMPLE



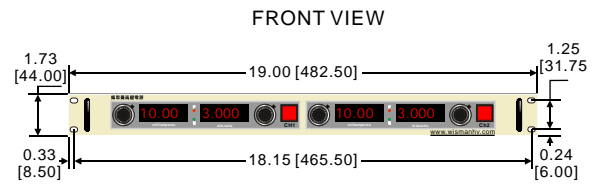


**SPECIFICATIONS**

Parameter	Description
Input	220Vac±5%, Input current <1A.
Output	1kV~30kV optional.
Stability	After one hour warm up period.10ppm/hour; 25ppm/8 hours; 100ppm/1000 hours
Temperature Coefficient	10ppm per degree C
Ripple	See MSA Selection example.
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% ( no load to rated load)
Voltage Line Regulation	±0.01%( ±10% change in input voltage)
Operating Temperature	0℃ ~ 50℃ 。
Storage Temperature	-35℃ ~ 85℃ 。
Humidity	20%~85% RH, non-condensing,
Dimensions	See MSC Mechanical Dimensions

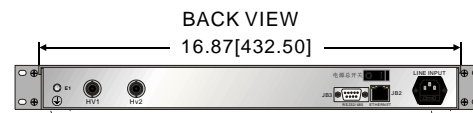
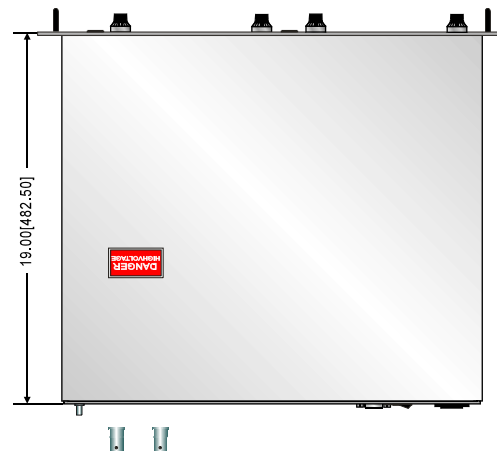
**RS-485 DIGITAL INTERFACE**

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		



**MSC DIMENSIONS**

DIMENSIONS: in.[mm]



**MULTI-CHANNEL SYSTEM**