MSD

1kV~30kV
5W~20W

MULTI-CHANNEL SYSTEM

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

ISO9001:2015

C | MULTI-CHANNEL SYSTEM

- 8 CHANNELS INDEPENDENT OUTPUT
- TEMPERATURE COEFFICIENT:≤25PPM/℃
- RIPPLE VOLTAGE: 0.001% P-P
- RS-485 COMPUTER CONTROL REMOTELY
- ARC and SHORT CIRCUIT PROTECTION
- VOLTAGE, CURRENT REGULATION FUNCTION
- OEM CUSTOMIZATION AVAILABLE
- OUTPUT VOLTAGE:30KV, OUTPUT POWER:20W

INTRODUCTION

Wisman MSD 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 independent voltage and current display, 4-digit display, and the output voltage and current of each channel can be the same, can also be different, customers order according to their needs. The MSD series has a complete protection system. It can be controlled remotely or locally, with voltage and current display on the front panel, and functions such as overvoltage, overcurrent, short circuit protection, arc pulling, overtemperature protection and safety interlock at the high voltage output. Wide range of adjustment and flexible multiple optional functions.

TYPICAL APPLICATIONS

Mass spectrometry, photomultiplier tubes, piezoelectric crystal devices, scintillation counters, electron multiplying detectors, electrophoresis, DNA sequencing, counters, electron beams, ion beams, voltage bias, pulse power supply, precision lens image intensifier, capacitor charging, electrospinning, life science, medical chemical industry, scientific experiment, industrial application.

MSD SELECTION TABLE

kV	mA	P(W)	MODEL	RIPPLE(mVp-p)	kV	mA	P(W)	MODEL	RIPPLE(mVp-p)	kV	mA	P(W)	MODEL	RIPPLE(mVp-p)
1	5.0	5	MSD1*5	10	3	1.67	5	MSD3*5	25	15	0.33	5	MSD15*5	100
	10.0	10	MSD1*10	10		3.33	10	MSD3*10	25		0.67	10	MSD15*10	100
	20.0	20	MSD1*20	25		6.67	20	MSD3*20	75		1.33	20	MSD15*20	370
2	2.5	5	MSD2*5	20	5	1.0	5	MSD5*5	30	20	0.25	5	MSD20*5	150
	5.0	10	MSD2*10	20		2.0	10	MSD5*10	30		0.5	10	MSD20*10	150
	10.0	20	MSD*20	50		4.0	20	MSD5*20	120		1.0	20	MSD20*20	500
2.5	2.0	5	MSD2.5*5	25	10	0.5	5	MSD10*5	50	30	0.17	5	MSD30*5	250
	4.0	10	MSD2.5*10	25		1.0	10	MSD10*10	50		0.33	10	MSD30*10	250
	8.0	20	MSD2.5*20	60		2.0	20	MSD10*20	250		0.67	20	MSD30*20	1000

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

MSD SELECTION EXAMPLE

MSD	30	*	20	TC25	LCX
Series Number	Maximum Output Voltage (kV)	Output Polarity P:Positive N:Negative	Maximum Output Power(W)	Temperature coefficient TC25: 25ppm/℃ TC10: 10ppm/℃	High voltage cable(option) High voltage shielded cable length Xm X=1~50 (X optional)

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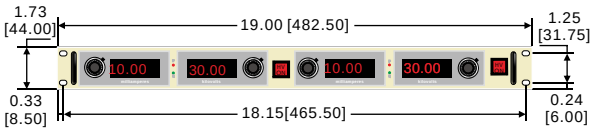
SPECIFICATIONS

Parameter	Description
Input	Ac220±10%,(AC110Voptional) , maximum current 1A.
Output	1kV~30kV optional.
Stability	After half an hour warmming up period ＜10ppm/hour; ＜100ppm/8 hours.
Temperature Coefficient	15ppm/℃. Higher stability can be customized.
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(input voltage change ±10%)
Operating Temperature	0℃ ~ 50℃。
Storage Temperature	-40℃ to +85℃。
Humidity	10%~90%RH, non-condensing.
Dimensions	H: 44mm(1U); W: 483mm; L: 483mm.

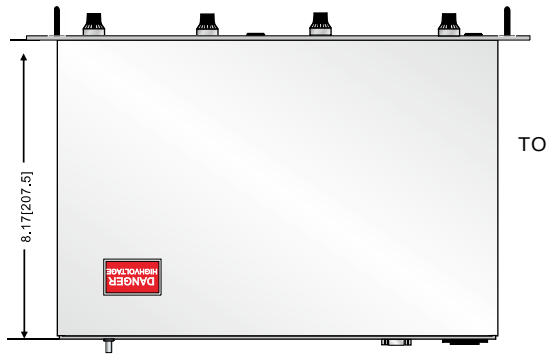
RS-485 DIGITAL INTERFACE D

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		

FRONT VIEW

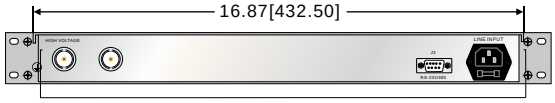


MSD DIMENSIONS DIMENSIONS:in.[mm]



TOP VIEW

BACK VIEW



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