



- **COMPACT, HIGH POWER 100W**
- **OUTPUT VOLTAGE FROM 1kV to 20kV,**
- **HIGH STABILITY, LOW RIPPLE**
- **OVERVOLTAGE AND OVERCURRENT PROTECTION**
- **VOLTAGE PROGRAMMING, CURRENT PROGRAMMING OPTIONAL**
- **LOCAL AND REMOTE CONTROL**
- **OEM CUSTOMIZATION AVAILABLE**

INTRODUCTION

Wisman' s MRS series high voltage power supply is compact and high stable modules, providing both positive and negative high voltage output. MRSseries can realize voltage remote control via external potentiometer, and has the current and voltage monitor. MRS series has the overvoltage and overcurrent protection.

APPLICATIONS

Photomultiplier tubes Solid state detectors, Piezoelectric crystal devices, Voltage bias, Ultrasonic transducers, Microchannel plates, Spectra, Scintillation counters, Electron multiplier detectors, Electrophoresis, DNA sequencing, Counter, Electron beam, Ion beam, Electrostatic chuck, Withstand voltage test, Pulse power supply, Precision lens, Image intensifiers, Semiconductor testing, Capacitor charging, Electrostatic spinning, Electrostatic discharge testing ESD, Life sciences, Experiments, Industrial applications.

MRS SELECTION TABLE

kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL
1	6	6	MRS1*6	3	2	6	MRS3*6	8	0.75	6	MRS8*6	15	0.4	6	MRS15*6
	9	9	MRS1*9		3	9	MRS3*9		1.13	9	MRS8*9		0.6	9	MRS15*9
	15	15	MRS1*15		5	15	MRS3*15		1.88	15	MRS8*15		1	15	MRS15*15
	30	30	MRS1*30		10	30	MRS3*30		3.75	30	MRS8*30		2	30	MRS15*30
	60	60	MRS1*60		20	60	MRS3*60		7.5	60	MRS8*60		4	60	MRS15*60
	75	75	MRS1*75		25	75	MRS3*75		9.38	75	MRS8*75		5	75	MRS15*75
	100	100	MRS1*100		33.33	100	MRS3*100		12.5	100	MRS8*100		6.67	100	MRS15*100
2	3	6	MRS2*6	6	1	6	MRS6*6	10	0.6	6	MRS10*6	20	0.3	6	MRS20*6
	4.5	9	MRS2*9		1.5	9	MRS6*9		0.9	9	MRS10*9		0.45	9	MRS20*9
	7.5	15	MRS2*15		2.5	15	MRS6*15		1.5	15	MRS10*15		0.75	15	MRS20*15
	15	30	MRS2*30		5	30	MRS6*30		3	30	MRS10*30		1.5	30	MRS20*30
	30	60	MRS2*60		10	60	MRS6*60		6	60	MRS10*60		3	60	MRS20*60
	35	75	MRS2*75		12.5	75	MRS6*75		7.5	75	MRS10*75		3.75	75	MRS20*75
	50	100	MRS2*100		16.67	100	MRS6*100		10	100	MRS10*100		5	100	MRS20*100

MRS SELECTION EXAMPLE

MRS	20	*	100	VP	10	VIM	10	AX	LX
Series Number	MAX. Output Voltage (KV)	Output Polarity P:Positive N:Negative	MAX. Output Power (W)	Option VP: Voltage Program	Option 10:0 ~+10Vdc Programming =0 to Max. Output 5:0~+5Vdc Programming =0 to Max. Output	Option VM: Voltage Monitor IM: Current Monitor VIM:Voltage and Current Monitor	Option 10:0 ~+10Vdc Programming =0 to Max. Output 5:0~+5Vdc Programming =0 to Max. Output	Option X=0,1,2,3,5,8,N 0 with no arc N arc no shut down	Optional hv cables LX: unshield cables length Xm x=1 (X optional)



FEATURES

PARAMETERS	DESCRIBE
Input	+24Vdc±10%。
Output	1kV,2kV,3kV,6kV,8kV,10kV,15kV,20kV optional 6W~100W optional
Stability	<0.01% per 8 hours after half an hour' s warm up.
Temperature coefficient	≤25ppm/℃。
Ripple	≤0.1%Vp-p。
Voltage current monitor	0~+10Vdc=0~100% rated output,Zout=10kΩ, accuracy:±1%
Voltage local control	Internal potentiometer set output voltage from 0~100% rated output.
Voltage remote control	External 0~+10Vdc control signal set output voltage from 0~100% rated output,Zin=10MΩ.
Voltage load regulation	0.01%(no load to full load)
Voltage line regulation	±0.01%(Input Voltage line changes ±10%)
Current load regulation	0.01%(no load to full load)
Current line regulation	±0.01%(Input Voltage line changes ±10%)
Operation temperature	0℃ ~ +40℃。
Storage temperature	-40℃ ~ +85℃。
Cooling	0~60W:convection cooling;60W~100W:Fan assisted
Humidity	20%~85%RH,no condensing
Dimensions	1.65 'H x 3.94 'W x 5.63 'D(42.00mm x 100.00mm x143.00 mm)。
Weight	1kg。

MRS PIN INFORMATION

PIN	SIGNAL	PIN	SIGNAL
1	Voltage local output	5	Reference output+10Vdc
2	Power input+24Vdc±10%	6	Voltage remote input
3	POWER/HV GND	7	Voltage monitor
4	SGND	8	Current monitor

DIMENSIONS

DIMENSIONS:in.[mm]

Fan(15CFM) assisted for 60W~100W

