



The MRS Series is a compact high power HV module designed, offering tight regulation, high stability and low ripple. The output voltage can be controlled by either a local internal potentiometer or by a customer provided ground referenced signal for remote operation. Additionally a ground referenced output voltage monitor signal is provided.

TYPICAL APPLICATIONS:

Photomultiplier Tubes, Microchannel Plate Detectors, Electron multiplier Detectors, Scintillators, Mass Spectrometry, Electron and Ion Beams, Electrostatic Lenses, Nuclear Instruments, Electrostatic Printing.

OPTIONS:

LR(X) Low Ripple 0.1%-0.001% NSS No Slow Start
 SS(X) Nonstandard Slow Start NAT No Arc Trip
 LL(X) Extra Length HV Cable AT Arc Trip
 3VPM 0 to 3 Volt Programming and Monitor Scaling
 4.5VPM 0 to 4.5 Volt Programming and Monitor Scaling
 5VPM 0 to 5 Volt Programming and Monitor Scaling
 VCC Variable Current Control

SPECIFICATIONS

Input:

24Vdc \pm 5%, 5.0A maximum.

Output:

1KV, 2KV, 3KV, 6KV, 8KV, 10KV, 15KV, 20KV
 8 models maximum output voltage is available.
 10W, 20W, 30W 3 models maximum output power is available.

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.

- COMPACT
- ULTRA LOW RIPPLE.
- HIGH STABILITY.
- HIGH EFFICIENCY WHICH COMES CLOSE 90%.
- HIGH RELIABILITY.
- VOLTAGE & CURRENT PROGRAMMING.
- LOCAL AND REMOTE CONTROL.
- SAFETY INTERLOCK.
- OEM CUSTOMIZATION AVAILABLE.

Voltage Regulation:

Load: 0.01% of output voltage no load to full load.
 Line: \pm 0.01% for \pm 10% change in input voltage.

Current Regulation:

Load: 0.01% of output current from 0 to rated voltage.
 Line: \pm 0.01% for \pm 10% change in input voltage.

Ripple:

0.1% p-p of maximum rated output voltage.

Environmental:

Operational: 0° C to +50° C
 Storage: -40° C to +85° C
 Humidity: 0% to 90%, non-condensing

Temperature Coefficient:

0.01% per ° C, voltage and current.

Stability:

0.02% per 8 hours after 1/2 hour warm-up.

Voltage and Current Monitors:

0 to +10Vdc proportional from 0 to rated output. Accuracy: \pm 1%

Dimensions:

1.65" H x 3.94" W x 5.63" D
 (42.00mm x 100.00mm x 143.00mm)

MRS SELECTION TABLE - 10W 20W 30W

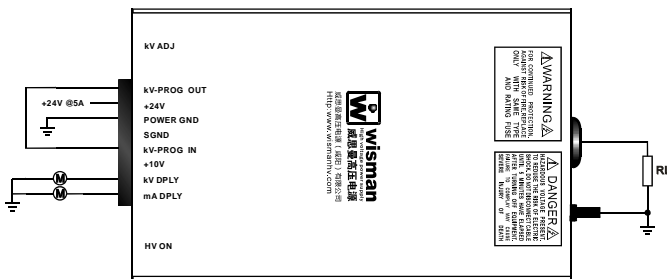
KV	10W		20W		30W	
	mA	MODEL	mA	MODEL	mA	MODEL
1	10.00	MRS1*10	20.00	MRS1*20	30.00	MRS1*30
2	5.00	MRS2*10	10.00	MRS2*20	15.00	MRS2*30
3	3.33	MRS3*10	6.67	MRS3*20	10.00	MRS3*30
6	1.67	MRS6*10	3.33	MRS6*20	5.00	MRS6*30
8	1.25	MRS8*10	2.50	MRS8*20	3.75	MRS8*30
10	1.00	MRS10*10	2.00	MRS10*20	3.00	MRS10*30
15	0.67	MRS15*10	1.33	MRS15*20	2.00	MRS15*30
20	0.50	MRS20*10	1.00	MRS20*20	1.50	MRS20*30

*Specify "P" for positive polarity or "N" for negative polarity .

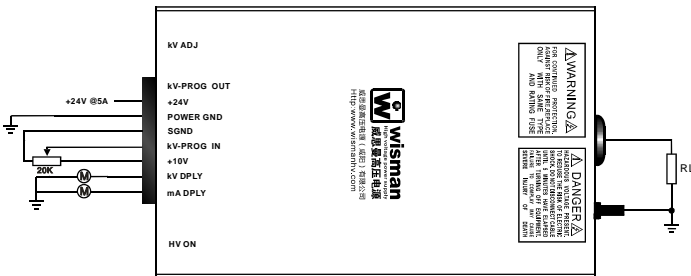
ANALOG INTERFACE CONNECTOR

MODEL	MODEL
1 Local Voltage Program	5 +10V Reference
2 DC24V	6 Voltage Program Input
3 DC24V Return	7 Voltage Monitor
4 SGND	8 Current Monitor

Local Typical Operating Setup



External Typical Operating Setup



DIMENSIONS: in. 【mm】

