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- USB2.0, RS-232,RS-485 CONTROL AVAILABLE
- HOT SWITCHABLE POLARITY REVERSIBLE
- WELL REGULATED, LOW RIPPLE,
- $\pm 1kV$ ~ $\pm 30kV$ REMOTE PROGRAMMING
- POLARITY REVERSIBLE UPON COMMAND _ IN<1s,AT NO LOAD
- LOW STORAGE ENERGY, CURRENT LIMITED
 OUTPUT
- COST EFFECTIVE MODULAR DESIGN
- LOCAL AND REMOTE CONTROL
- OEM CUSTOMIZED AVAILABLE



INTRODUCTION

Wisman's PRC modular high voltage power supply is ideal for OEM usage. It is specifically designed to mee the needs of applications requiring a hots witched reversible output voltage. The output polarity of the unit can be quickly and safely reversed via the Polarity Control Signal provided on the interface connector. Both the output voltage and current are fully adjustable via ground referenced remote programming signals such that 0 to 10 Vdc corresponds to 0 to 100 % rated output voltage and current. Remote motioning functionality is provided by voltage and current monitor such that 0 to 10 Vdc corresponds to 0 to 100 % rated voltage and current. Additionally remote polarity and mode indicator sprovidea comprehensive over view of power supply operation.

Anoptional USB 2.0 RS - 232 or RS - 422 is available.

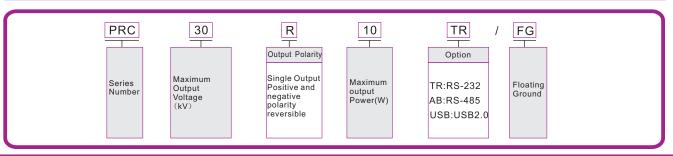
TYPICAL APPLICATION

Mass spectrometer, CapillaryElectrophoresis,ElectrostaticPrinting,Electrostaticdischarge,DNA Analysis, Electrospinning,LifeSciences,ElectronMicroscope,ElectronMultiplierTubes,Ion Multiplier Tubes Testing Electrostatic research, Microchip Electrophoresis, Microchip Electrophoresis, Electrostatic chuck, Medical chemical Applications, Science, Laboratory Applications, Industrial Applications.

SELECTION TABLE

kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL
5	1	5	PRC5R5	- 15	0.33	5	PRC15R5	25	0.2	5	PRC25R5
	1.2	6	PRC5R6		0.4	6	PRC15R6		0.24	6	PRC25R6
	1.6	8	PRC5R8		0.53	8	PRC15R8		0.32	8	PRC25R8
	2	10	PRC5R10		0.67	10	PRC15R10		0.4	10	PRC25R10
10	0.5	5	PRC10R5	20	0.25	5	PRC20R5	30	0.17	5	PRC30R5
	0.6	6	PRC10R6		0.3	6	PRC20R6		0.2	6	PRC30R6
	0.8	8	PRC10R8		0.4	8	PRC20R8		0.27	8	PRC30R8
	1	10	PRC10R10		0.5	10	PRC20R10		0.33	10	PRC30R10

SELECTION EXAMPLE



PRC ±1kV~±30kV/5W~10W AUTO-REVERSING APPLICATION SPECIFIC POWER SUPPLY



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FEATURES

PARAMETER	DESCRIBE				
Input	+25Vdc±10%,2A maximum				
Output	± 5 kV, ± 10 kV, ± 15 kV, ± 20 kV, ± 25 kV, ± 30 kV optional				
Stability	0.01% per hour after 1 hour's warm up				
Temperature coefficient	≤25ppm/°C。				
Ripple	≤0.001%Vp-p。				
Polarity	Reversible via remote logical signal				
Current/Voltage monitor	0~+10Vdc=0~100% rated output, Zout=10kΩ, Accuracy: ±1%				
Voltage remote control	0~10Vdc=0~100% rated output,Zin=10M Ω .				
Voltage load regulation	0. 01% (no load to full load)				
Voltage line regulation	\pm 0. 01% (input voltage changes \pm 10%)				
Current load regulation	0. 01% (no load to full load)				
Current line regulation	±0. 01% (input voltage changes±10%)				
Operation temperature	0℃~+40℃。				
Storage temperature	-40°C~+85°C。				
Cooling	Convection cooling				
Humidity	20%~85%RH,non condensing				
Dimensions	3.5" H x 5.0" W x10.0" D (89.00mm x 127.00mm x254.00mm)。				
Weight	4.45kg。				

ANALOG INTERFACE

J2	SIGNAL	PARAMETER				
1	+24Vdc GND	Power GND				
2	+24Vdc GND	Power GND				
3	+24Vdc GND	Power GND				
4	HV Enable/inhibit	Open or<1Vdc=HV OFF,>3. 4Vdc (Maximum 15Vdc)=HV ON				
5	Voltage monitor	0~+10Vdc=0~full scale. Zout=10kΩ				
6	Current monitor	0~+10Vdc=0~full scale, Zout=10kΩ				
7	Chassis ground	GND				
8	Remote voltage control	0~+10Vdc=full scale,Zin=10MΩ				
9	Remote current control	0~+10Vdc=full scale, Zin=10MΩ				
10	+10Vdc	+10Vdc reference Voltage				
11	SGND	SGND				
12	Polarity control	Open or>3. 4Vdc=positive,Ground or <1Vdc=negative				
13	Positive polarity indicator	+24Vdc sourced through a 100 Ω series, limiting resistor, +24Vdc=positive				
14	+24Vdc input	+24Vdc±10%				
15	+24Vdc input	+24Vdc±10%				
16	Chassis GND	GND				
17	Negative polarity indicator	+24Vdc sourced through a 100 Ω series, limiting resistor, +24Vdc=negative				
18	Current mode indicator	Open collector pulled up internally to+15Vdc,through 2.7k Ω resistor with a 470 Ω limiting resistor in series. Transistor OFF=signal active				
19	Voltage mode indicator	Open collector pulled up internally to+15Vdc,through $2.7k\Omega$ resistor with a 470Ω limiting resistor in series. Transistor OFF=signal active				
20	Return current monitor	0~+10Vdc=0~100% rated output current, as measures returned from load. Zout=10kΩ, 1%				
21	Load return	High voltage return point, required for GFI circuit functionality.				
22	Ground arc indicator	Open collector pulled up internally to+15Vdc,through 2.7k Ω resistor with a 470 Ω limiting resistor in series. Transistor OFF=signal active				
23	Spare	N/C				
24	Spare	N/C				
25	Spare	N/C				



±1kV~±30kV/5W~10W 热极性逆转 特殊应用高压电源

PRC

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RS-232/RS-485 DIGITAL INTERFACE O

	SIGNAL	SIGNAL		
1	N/C	6	N/C	
2	TXD/Transmit Data	7	RS-485B	
3	RXD/Receive Data	8	N/C	
4	N/C	9	RS-485A	
5	SGND			

USB2.0 DIGITAL INTERFACE®

	USB	Signal
1	VBUS	+5Vdc
2	D-	Data-
3	D+	Data+
4	GND	USB GND

DIMENSION

5.00[127.00]



