RLA

1kV~300kV
60W~2000W
Rack Mount

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

ISO9001:2015

- Output Voltage 1kV~300kV
- Standard ET, RS-232, RS-485
- Constant voltage&current auto cross control
- Local or remote control switch control
- Secure interlock function
- OEM Customization available

INTRODUCTION

Wisman's RLA series of high-voltage power supplies are designed to meet high-performance 19"chassis-type HV power supplies. RLA series has low ripple, high stability, perfect protection system.such as over-voltage, over-current protection, and arc protection etc. Remote & local control, voltage and current display. These full featured supplies are available in a wide range of outputs with many options.

APPLICATION

Mass spectrometer,Capacitor charging,electron beams, ion beams,ion implantation, anodic bonding, capacity charge, High energy particle injection, commercial installation, Aging of electronic components, insulation test, electrostatic application, Laser, Medical, Industrial, Semiconductor,Safety, Environment, analytical instruments, Scientific research

SELECTION TABLE

kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL
1	60	60	RLA1*60	10	7.5	60	RLA10*60	50	1.2	60	RLA50*60	120	0.5	60	RLA120*60	300	0.2	60	RLA300*60
	180	180	RLA1*180		22.5	180	RLA10*180		3.6	180	RLA50*180		1.5	180	RLA120*20		0.6	180	RLA300*180
	600	600	RLA1*600		75	600	RLA10*600		12	600	RLA50*600		5	600	RLA120*600		2	600	RLA300*600
	1200	1200	RLA1*1200		150	1200	RLA10*1200		24	1200	RLA50*1200		10	1200	RLA120*1200		4	1200	RLA300*1200
	2000	2000	RLA1*2000		250	2000	RLA10*2000		40	2000	RLA50*2000		16.67	2000	RLA120*2000		6.67	2000	RLA300*2000
2	30	60	RLA2*60	15	4	60	RLA15*60	60	1	60	RLA60*60	130	0.46	60	RLA130*10				
	90	180	RLA2*180		12	180	RLA15*180		3	180	RLA60*180		1.38	180	RLA130*180				
	300	600	RLA2*600		40	600	RLA15*600		10	600	RLA60*600		4.61	600	RLA130*600				
	600	1200	RLA2*1200		80	1200	RLA15*1200		20	1200	RLA60*1200		9.23	1200	RLA130*1200				
	1000	2000	RLA2*2000		133.33	2000	RLA15*2000		33.33	2000	RLA60*2000		15.38	2000	RLA130*2000				
3	20	60	RLA3*60	20	3	60	RLA20*60	70	0.86	60	RLA70*60	150	0.4	60	RLA150*60				
	60	180	RLA3*180		9	180	RLA20*180		2.57	180	RLA70*180		1.2	180	RLA150*180				
	200	600	RLA3*600		30	600	RLA20*600		8.57	600	RLA70*600		4	600	RLA150*600				
	400	1200	RLA3*1200		60	1200	RLA20*1200		17.14	1200	RLA70*1200		8	1200	RLA150*1200				
	666.67	2000	RLA3*2000		100	2000	RLA20*2000		28.57	2000	RLA70*2000		13.33	2000	RLA150*2000				
6	10	60	RLA6*60	30	2	60	RLA30*60	80	0.75	60	RLA80*60	200	0.3	60	RLA200*610				
	30	180	RLA6*180		6	180	RLA30*60		2.25	180	RLA80*180		0.9	180	RLA200*180				
	100	600	RLA6*600		20	600	RLA30*600		7.5	600	RLA80*600		3	600	RLA200*600				
	200	1200	RLA6*1200		40	1200	RLA30*1200		15	1200	RLA80*1200		6	1200	RLA200*1200				
	333.33	2000	RLA6*2000		66.67	2000	RLA30*2000		25	2000	RLA80*2000		10	2000	RLA200*2000				
8	7.5	60	RLA8*60	40	1.5	60	RLA40*60	100	0.6	60	RLA100*60	250	0.24	60	RLA250*60				
	22.5	180	RLA8*180		4.5	180	RLA40*180		1.8	180	RLA100*180		0.72	180	RLA250*180				
	75	600	RLA8*600		15	600	RLA40*600		6	600	RLA100*600		2.4	600	RLA250*600				
	150	1200	RLA8*1200		30	1200	RLA40*1200		12	1200	RLA100*1200		4.8	1200	RLA250*1200				
	250	2000	RLA8*2000		50	2000	RLA40*2000		20	2000	RLA100*2000		8	2000	RLA250*2000				

EXAMPLE

RLA — Series Number

300 — Maximum Output Voltage (kV)

* — Output Polarity: P: Positive N: Negative R: Reversible(within 8kV, above 8kV,turn to HV modules)

2000 — Maximum Output Power (W)

Default: RS-232/ ET

Option	
AB	RS-485 Control
OPT	Optical fiber control
LR	Low ripple
M	Blank Panel
PH	AC110V

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Specifications

参数	说明
Input	220Vac±10%,(Option 110Vac)10A. Maximum Current
Output	1kV~300kV Maximum output Voltage option.60W~2000W Maximum output power.
Stability	≤10ppm per 8 hour after 30 minutes' warm-up.
Temperature	≤25ppm/℃。
Ripple	≤10ppm。
Voltage/Current Monitor	0 ~ +10Vdc=0 ~100% rated output,Zout=4.99kΩ, accuracy.
Voltage Local Programming	Front panel potentiometer to set voltage from 0 ~100% rated output, Zin=10MΩ
Voltage Remote Programming	External 0 ~ +10Vdc control sign can set voltage from 0 ~100% rated output. Zin=10MΩ
Current Local Programming	Internal potentiometer to set current from 0 ~100% rated output. Zin=10MΩ
CurrentRemoteProgramming	External 0~+10Vdc control sign can set curent from 0~100% rated output. Zin=10MQ
Voltage Load Regulation	0.005%+500mV (no load to rated load).
Voltage Line Regulation	0.005%+500mV (no load to rated load).
Current Load Regulation	0.01%±100uA (no load to rated load).
Current Line Regulation	± ± 0.005% (input voltage change 10%).
Operating Temperature	0℃~40℃。
Storage Temperature	-40℃~+85℃。
Humidity	0~80%
Dimensions	3.46"H x 19.00"W x 19.00"D(88mm x 482.5mm x482.5mm)。
Weight	＜140lb（63. 50kg)

ANALOG INTERFACE

J2	SIGNAL	
1	Signal Ground	Signal Ground
2	Polarity Monitor	Optional
3	External Interlock	+15Vdc at closed, <15mA at open
4	External Interlock Return	External Interlock Return
5	Current Monitor	0 ~ +10Vdc=0 ~100% rated output,Zout=4.99kΩ
6	Voltage Monitor	0 ~ +10Vdc=0 ~100% rated output,Zout=4.99kΩ
7	+10Vdc	+10VDC reference output, 1mA Max
8	Remote Current Program In	0 ~ +10Vdc=0 ~100% rated output,Zin=10MΩ
9	Local Current Program Out	Front Panel Program Current output
10	Remote Voltage Program In	0 ~ +10Vdc=0 ~100% rated output,zin=10MΩ
11	Local Voltage Program Out	Front Panel Program Voltage output
12	Remote Power Program Out	(Optional)
13	Remote Power Program In	
14	Remote HV Off	+15Vdc at Open, contact closure
15	HV Off/ON Indicator	Low=Off, , High=On
16	Remote HV On	+15Vdc open, contact open
17	HV ON Indicator	Low=On, High=Off
18	Reset Signal	Low= Reset
19	Voltage Mode	Low
20	Current Mode	Low
21	Power Mode	Optional
22	Remote PS Fault	0=Fault, +15Vdc, 0.1mA Max=No Fault
23	+15Vdc I/O	+15Vdc, 100mA Max
24	Power Monitor	Optional
25	Ground	Chassis Ground

RS-232/RS-485DIGITAL INTERFACE

J3	SIGNAL		
1	N/C	6	N/C
2	TXD/TRANSMIT DATA	7	RS485B
3	RXD/RECEIVE DATA	8	N/C
4	N/C	9	RS485A
5	DIGITAL GROUND		

ETHERNET DIGITAL INTERFACE

J4	SIGNAL	
1	RX+	Receive Data+
2	RX-	Receive Data-
3	TX+	Transmit Data+
4	N/C	No Connection
5	N/C	No Connection
6	TX-	Transmit Data-
7	N/C	No Connection
8	N/C	No Connection

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