

DL

1kV~130kV
10W~1200W
RACK MOUNT



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

ISO9001:2015

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RACK MOUNT



- OUTPUT VOLTAGE RANGE 1KV ~ 130KV
- STANDARD ET, RS-485 OR RS-232
- VOLTAGE & CURRENT PROGRAMMABLE
- LOCAL AND REMOTE REGULATION
- SAFETY INTERLOCK
- OEM CUSTOMIZATION AVAILABLE

INTRODUCTION

Wisman's DL series of high-voltage power supplies are designed to meet high-performance 19" chassis-type HV power supplies. DL series are equipped with a complete 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.

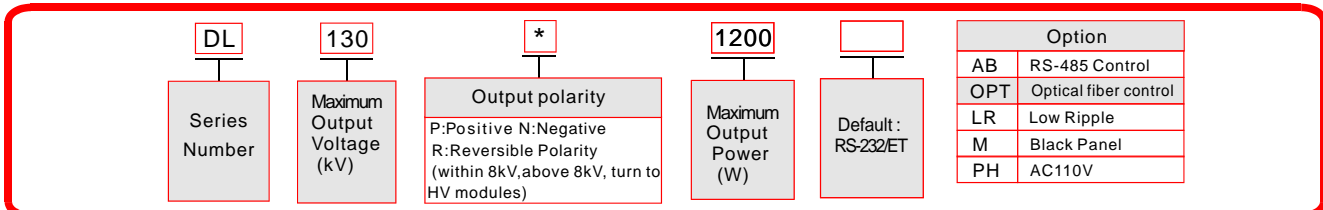
TYPICAL APPLICATIONS

Capacitor charging, electronic component, aging insulation test, high voltage testing, electron beams, ion beams, lithography technology, electro-statics applications, electro-spinning, electrophoresis capillary electrophoresis, microchip electrophoresis, DNA sequencing, piezo electricity material testing, science, laboratory applications, accelerator, industrial applications.

DL 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	10	10	DL1*10	6	16.7	100	DL6*100	15	40	600	DL15*600	50	0.6	30	DL50*30	80	1.88	150	DL80*150					
	30	30	DL1*30		25	150	DL6*150		80	1200	DL15*1200		1.2	60	DL50*60		3.75	300	DL80*300					
	60	60	DL1*60		50	300	DL6*300		0.5	10	DL20*10		2	100	DL50*100		7.5	600	DL80*600					
	100	100	DL1*100		100	600	DL6*600		1.5	30	DL20*30		3	150	DL50*150		15	1200	DL80*1200					
	150	150	DL1*150		200	1200	DL6*1200		3	60	DL20*60		6	300	DL50*300		0.1	10	DL100*10					
	300	300	DL1*300		1.25	10	DL8*10		5	100	DL20*100		12	600	DL50*600		0.3	30	DL100*30					
	600	600	DL1*600		3.75	30	DL8*30		7.5	150	DL20*150		24	1200	DL50*1200		0.6	60	DL100*60					
2	1200	1200	DL1*1200	7.5	60	DL8*60	15	300	DL20*300	0.17	10	DL60*10	1	100	DL100*100									
	3	5	10	DL2*10	8	12.5	100	DL8*100	60	0.5	30	DL60*30	100	1.5	150	DL100*150								
		15	30	DL2*30		18.8	150	DL8*150		1	60	DL60*60		3	300	DL100*300								
		30	60	DL2*60		37.5	300	DL8*300		1.67	100	DL60*100		6	600	DL100*600								
		50	100	DL2*100		75	600	DL8*600		2.5	150	DL60*150		12	1200	DL100*1200								
		75	150	DL2*150		150	1200	DL8*1200		5	300	DL60*300		0.08	10	DL120*10								
		150	300	DL2*300		1	10	DL10*10		10	600	DL60*600		0.25	30	DL120*30								
300		600	DL2*600	3		30	DL10*30	20		1200	DL60*1200	0.5		60	DL120*60									
3	600	1200	DL2*1200	6	60	DL10*60	5	150	DL30*150	0.14	10	DL70*10	0.83	100	DL120*100									
	6	3.33	10	DL3*10	10	10	100	DL10*100	30	10	300	DL30*300	120	1.25	150	DL120*150								
		10	30	DL3*30		15	150	DL10*150		20	600	DL30*600		0.43	30	DL70*30	2.5	300	DL120*300					
		20	60	DL3*60		30	300	DL10*300		40	1200	DL30*1200		0.85	60	DL70*60	5	600	DL120*600					
		33.3	100	DL3*100		60	600	DL10*600		0.25	10	DL40*10		1.43	100	DL70*100	10	1200	DL120*1200					
		50	150	DL3*150		120	1200	DL10*1200		0.75	30	DL40*30		2.14	150	DL70*150	0.23	30	DL130*30					
		100	300	DL3*300		0.67	10	DL15*10		1.5	60	DL40*60		4.29	300	DL70*300	0.46	60	DL130*60					
200		600	DL3*600	2		30	DL15*30	2.5		100	DL40*100	8.57		600	DL70*600	0.77	100	DL130*100						
6	400	1200	DL3*1200	4	60	DL15*60	3.75	150	DL40*150	17.1	1200	DL70*1200	1.15	150	DL130*150									
	15	1.67	10	DL6*10	15	6.67	100	DL15*100	40	7.5	300	DL40*300	80	0.13	10	DL80*10								
		5	30	DL6*30		10	150	DL15*150		15	600	DL40*600		0.38	30	DL80*30	2.31	300	DL130*300					
		10	60	DL6*60		20	300	DL15*300		30	1200	DL40*1200		0.75	60	DL80*60	4.6	600	DL130*600					
		50	0.2	10		DL50*10	50	0.2		10	DL50*10	50		0.2	10	DL50*10	80	1.25	100	DL80*100	130	9.2	1200	DL130*1200

DL SELECTION EXAMPLE





DL SPECIFICATIONS

PARAMETER	DESCRIBE
Input	220Vac±10%,(Option 110Vac)10A maximum Current .
Output	1kV~130kV Maximum output Voltage option.10W~1200W Maximum output power option.
Stability	< 100ppm per hour after 30 minutes' warm-up.
Temperature Coefficient	≤25ppm/°C.
Ripple	0.1% p-p+1Vrms(0.05%p-p customized)
Voltage/Current Monitor	0 ~ +10Vdc = 0 ~100% rated output,Zout=4.99kΩ, accuracy:±1%.
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
Current Remote Programming	External 0 ~ +10Vdc control sign can set current from 0 ~100% rated output. Zin=10MΩ
Voltage Load Regulation	0.005%+500mV (no load to rated load).
Voltage Line Regulation	±0.005%+500mV (input voltage change±10%).
Current Load Regulation	0.01%±100uA (no load to rated load).
Current Line Regulation	±0.005% (input voltage change±10%).
Operating Temperature	0°C~+50°C.
Storage Temperature	-40°C~+85°C.
Humidity	20%~85% RH, non-condensing.
Dimensions10W-300W:0kV-100kV	1.73" H x 19.00" W x 19.00" D(44mm x 482.5mm x482.5mm).
Dimensions10W-1200W:1kV-130kV	3.46" H x 19.00" W x 19.00" D(88mm x 482.5mm x482.5mm).
Weight	7.7~14kg.

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DL 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-485 DIGITAL 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

DIMENSIONS

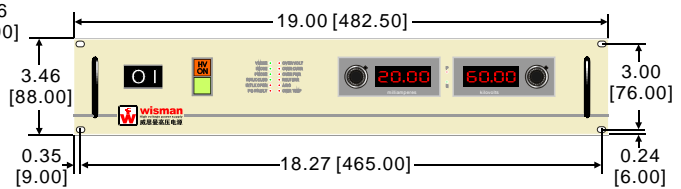
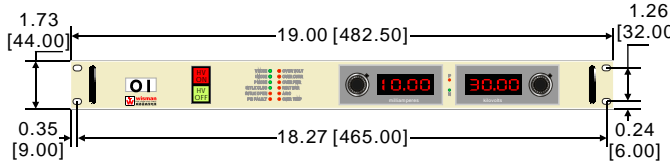
DIMENSIONS: in.[mm]

10W~300W:1kV~100kV

10W~300W:100kV~130kV
600W~1200W:1kV~130kV

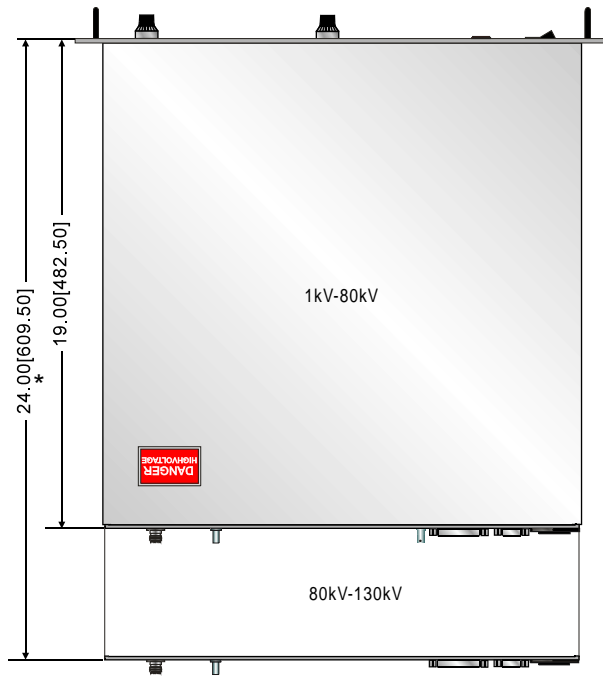
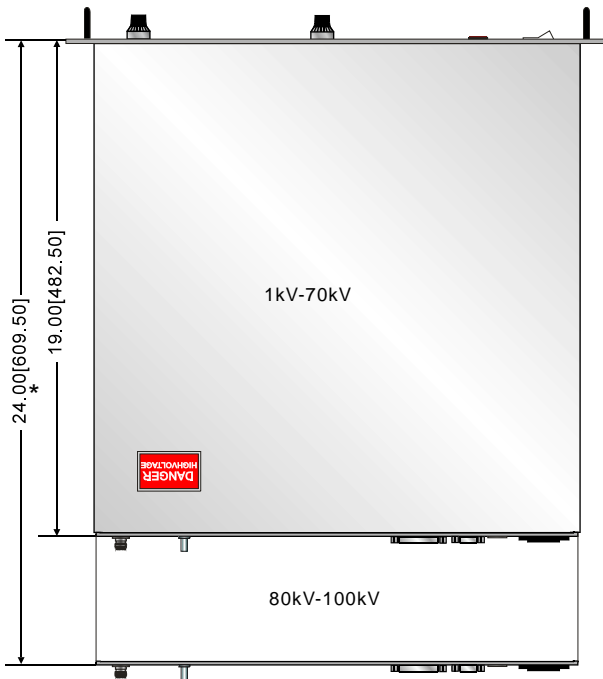
FRONT VIEW

FRONT VIEW



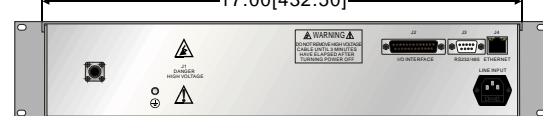
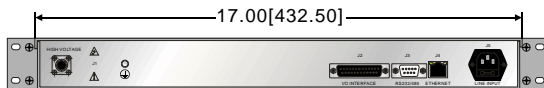
TOP VIEW

TOP VIEW



BACK VIEW

BACK VIEW



* Depth Becomes 24"[609.5mm] for 0kV to 100kV range.

* Depth Becomes 24"[609.5mm] for 80kV to 130kV range.

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