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

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## INTRODUCTION

Wisman DLC series high voltage power supply is a high performance handy type HV power supply. DLC 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.

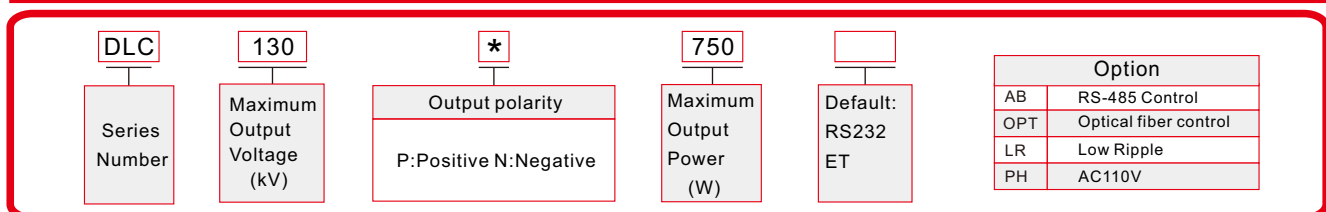
## TYPICAL APPLICATIONS

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.

## DLC 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	DLC1*10	6	16.7	100	DLC6*100	15	40	600	DLC15*600	50	0.6	30	DLC50*30	80	1.88	150	DLC80*150
	30	30	DLC1*30		25	150	DLC6*150		50	750	DLC15*750		1.2	60	DLC50*60		3.75	300	DLC80*300
	60	60	DLC1*60		50	300	DLC6*300		0.5	10	DLC20*10		2	100	DLC50*100		7.5	600	DLC80*600
	100	100	DLC1*100		100	600	DLC6*600		1.5	30	DLC20*30		3	150	DLC50*150		9.875	750	DLC80*750
	150	150	DLC1*150		125	750	DLC6*750		3	60	DLC20*60		6	300	DLC50*300		0.1	10	DLC100*10
	300	300	DLC1*300		1.25	10	DLC8*10		5	100	DLC20*100		12	600	DLC50*600		0.3	30	DLC100*30
	600	600	DLC1*600		3.75	30	DLC8*30		7.5	150	DLC20*150		15	750	DLC50*750		0.6	60	DLC100*60
2	750	750	DLC1*750	7.5	60	DLC8*60	15	300	DLC20*300	0.17	10	DLC60*10	1	100	DLC100*100				
	3	5	10	DLC2*10	8	12.5	100	DLC8*100	30	0.5	30	DLC60*30	100	1.5	150	DLC100*150			
		15	30	DLC2*30		18.8	150	DLC8*150		30	600	DLC20*600		3	300	DLC100*300			
		30	60	DLC2*60		37.5	300	DLC8*300		37.5	750	DLC20*750		6	600	DLC100*600			
		50	100	DLC2*100		75	600	DLC8*600		0.33	10	DLC30*10		7.5	750	DLC100*750			
		75	150	DLC2*150		93.75	750	DLC8*750		1	30	DLC30*30		1	60	DLC60*60			
		150	300	DLC2*300		1	10	DLC10*10		2	60	DLC30*60		5	300	DLC60*300			
300		600	DLC2*600	3		30	DLC10*30	3.33		100	DLC30*100	10		600	DLC60*600				
3	375	750	DLC2*750	6	60	DLC10*60	5	150	DLC30*150	12.5	750	DLC60*750	6	600	DLC100*600				
	6	3.33	10	DLC3*10	10	10	100	DLC10*100	60	0.14	10	DLC70*10	120	0.08	10	DLC120*10			
		10	30	DLC3*30		15	150	DLC10*150		2.5	150	DLC60*150		0.25	30	DLC120*30			
		20	60	DLC3*60		30	300	DLC10*300		5	300	DLC60*300		0.5	60	DLC120*60			
		33.3	100	DLC3*100		60	600	DLC10*600		10	600	DLC30*600		10	600	DLC60*600	0.83	100	DLC120*100
		50	150	DLC3*150		75	750	DLC10*750		20	600	DLC30*600		12.5	750	DLC60*750	1.25	150	DLC120*150
		100	300	DLC3*300		0.67	10	DLC15*10		25	750	DLC30*750		0.43	30	DLC70*30	2.5	300	DLC120*300
200		600	DLC3*600	2		30	DLC15*30	0.25		10	DLC40*10	0.85		60	DLC70*60	5	600	DLC120*600	
6	250	750	DLC3*750	7.5	750	DLC15*750	0.75	30	DLC40*30	1.43	100	DLC70*100	6.25	750	DLC120*750				
	15	1.67	10	DLC6*10	15	450	DLC15*450	1.5	60	DLC40*60	4.29	300	DLC70*300	0.23	30	DLC130*30			
		5	30	DLC6*30	2	30	DLC15*30	2.5	100	DLC40*100	8.57	600	DLC70*600	0.46	60	DLC130*60			
		10	60	DLC6*60	4	60	DLC15*60	3.75	150	DLC40*150	10.7	750	DLC70*750	0.77	100	DLC130*100			
		30	6.67	100	DLC15*100	6.67	100	DLC15*100	7.5	300	DLC40*300	0.13	10	DLC80*10	1.15	150	DLC130*150		
			10	150	DLC15*150	10	150	DLC15*150	15	600	DLC40*600	0.38	30	DLC80*30	2.31	300	DLC130*300		
			20	300	DLC15*300	18.75	750	DLC40*750	18.75	750	DLC40*750	0.75	60	DLC80*60	4.6	600	DLC130*600		
50			0.2	10	DLC50*10	20	300	DLC15*300	50	0.2	10	DLC50*10	1.25	100	DLC80*100	5.77	750	DLC130*750	

## DLC SELECTION EXAMPLE





**DLC SPECIFICATIONS**

PARAMETER	DESCRIBE
Input	220Vac±10%,(option 110Vac)10A maximum current.
Output	1kV~130kV Maximum output Voltage option.10W~750W 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%)
Operation Temperature	0°C~+50°C
Storage Temperature	-40°C~+85°C
Humidity	20% ~ 85% RH, non-condensing.
Dimensions1kV~70kV	3.46"H x 8.45"W x 19.00"D (88mm x 214.5mm x482.5mm)
Dimensions70kV~130kV	3.46"H x 8.45"W x 24.00"D (88mm x 214.5mm x609.5mm)
Weight	7.7kg~14kg

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**DLC ANALOG INTERFACE**

J2	SIGNAL	
1	SIGNAL	SIGNAL
2	N/C	N/C
3	External Interlock	Interlocking with J2-4, short connection
4	External Interlock Return	Interlocking with J2-3, short connection
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,Zout=10MΩ
9	Local Current Program Out	Front Panel Program Current output
10	Remote Voltage Program In	0~+10Vdc=0~100% rated output,Zout=10MΩ
11	Local Voltage Program Out	Front Panel Program Voltage output
12	N/S	N/S
13	N/S	N/S
14	Remote HV OFF	+15Vdc when floating, contact closure
15	HV OFF Indicator	≤2KV=OFF, High=On
16	Remote HV ON	+15Vdc when floating, contact open
17	HV ON Indicator	≤2KV=ON, High=OFF
18	Reset Signal	+15Vdc when floating, contact reset
19	Voltage Mode	+15Vdc when floating, low=constant voltage
20	Current Mode	+15Vdc when floating, low=constant current
21	N/C	N/C
22	Remote PS Fault	+15Vdc when floating, low=fault
23	+15Vdc	+15Vdc, 100mA Max
24	N/C	N/C
25	GND	GND

**RS232/RS485DIGITALINTERFACE**<sup>Ⓛ</sup>

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

**ETHERNET DIGITAL INTERFACE**<sup>Ⓛ</sup>

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

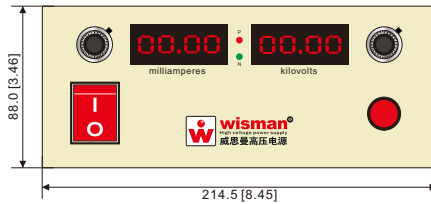
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DIMENSIONS: in.[mm]

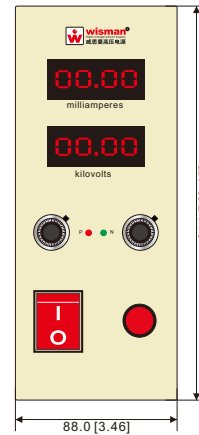
10W~750W: L

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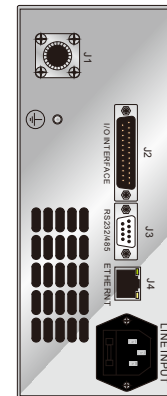
FRONT VIEW



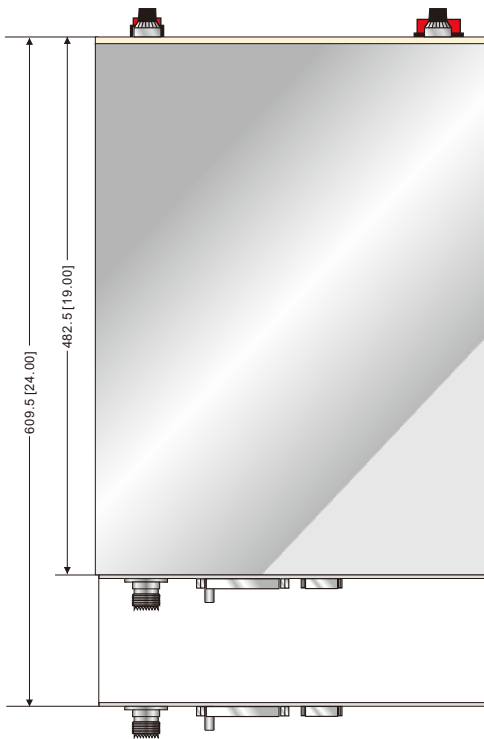
FRONT VIEW



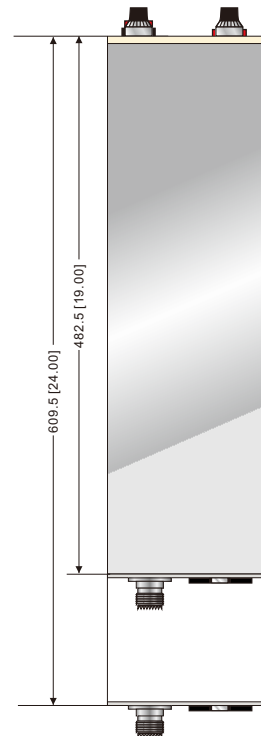
BACK VIEW



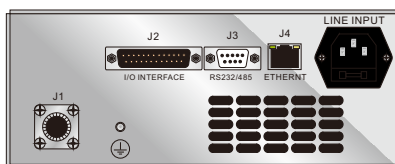
TOP VIEW



TOP VIEW



BACK VIEW



- \*Depth Becomes 19"[482.5mm] for 1kV to 70kV range.
- \*Depth Becomes 24"[609.5mm] for 70kV to 130kV range.