



- OPTIONAL RS-232 ,RS485 AVAILABLE
- 50kV AT 2 mA. 100W MAX
- OVERVOLTAGE ,ARC& SHORT CIRCUIT PROTECTION
- VOLTAGE, OPTIONAL CURRENT REGULATION.
- LOCAL AND REMOTE PROGRAMMING
- SAFETY INTERLOCK
- CUSTOMIZATION AVAILABLE



HANDY TYPE

INTRODUCTION

Wismann DED series is a portable high-stable precision high-voltage power supply. DED series modules have good regulation performance and provide positive or negative high voltage output. DED series module power supplies can be accurately measured and controlled by computers internally, externally, and RS232 and RS485 interfaces are optional. The DED safety interlock, short-circuit, arc, and overload protection.

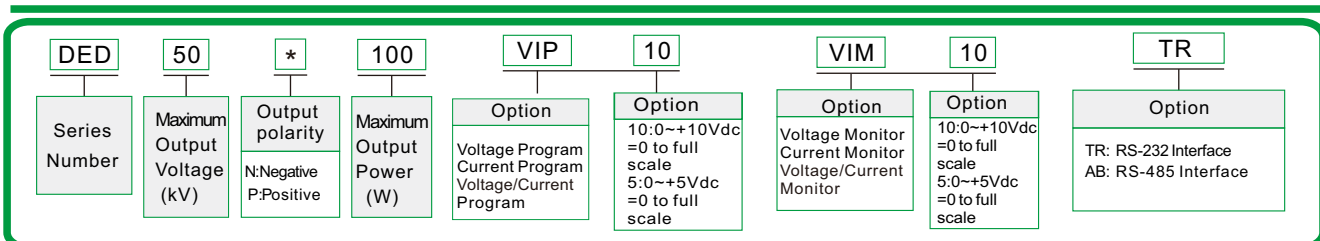
TYPICAL APPLICATIONS

Capacitor Charging, Electronic Component Aging, Insulation Test, High Voltage Testing, Electron Beam /Ion Beam, Focus Ion Beam, Ion Impouring, Lithography Technology, Electrostatic Applications, Electrostatic Deflexion, Electrospinning, Electro-phoresis Capillary Electrophoresis, Microchip Electrophoresis, DNA sequencing, Piezoelectricity material Testing, Science, Laboratory Applications, Industrial Applications.

DED 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
0.5	3	1.5	DED0.5*1.5	2	0.75	1.5	DED2*1.5	5	0.3	1.5	DED5*1.5	20	0.075	1.5	DED20*1.5	40	0.04	1.5	DED40*1.5
	10	5	DED0.5*5		2.5	5	DED2*5		1	5	DED5*5		0.25	5	DED20*5		0.13	5	DED40*5
	20	10	DED0.5*10		5	10	DED2*10		2	10	DED5*10		0.5	10	DED20*10		0.25	10	DED40*10
	30	15	DED0.5*15		7.5	15	DED2*15		3	15	DED5*15		0.75	15	DED20*15		0.375	15	DED40*15
	40	20	DED0.5*20		10	20	DED2*20		4	20	DED5*20		1	20	DED20*20		0.5	20	DED40*20
	60	30	DED0.5*30		15	30	DED2*30		6	30	DED5*30		1.5	30	DED20*30		0.75	30	DED40*30
	80	40	DED0.5*40		20	40	DED2*40		8	40	DED5*40		2	40	DED20*40		1	40	DED40*40
	100	50	DED0.5*50		25	50	DED2*50		10	50	DED5*50		2.5	50	DED20*50		1.25	50	DED40*50
	120	60	DED0.5*60		30	60	DED2*60		12	60	DED5*60		3	60	DED20*60		1.5	60	DED40*60
	150	75	DED0.5*75		37.5	75	DED2*75		15	75	DED5*75		3.5	75	DED20*75		1.88	75	DED40*75
200	100	DED0.5*100	50	100	DED2*100	20	100	DED5*100	5	100	DED20*100	2.5	100	DED40*100					
1	1.5	1.5	DED1*1.5	3	0.5	1.5	DED3*1.5	10	0.15	1.5	DED10*1.5	30	0.05	1.5	DED30*1.5	50	0.03	1.5	DED50*1.5
	5	5	DED1*5		1.67	5	DED3*5		0.5	5	DED10*5		0.17	5	DED30*5		0.1	5	DED50*5
	10	10	DED1*10		3.33	10	DED3*10		1	10	DED10*10		0.33	10	DED30*10		0.2	10	DED50*10
	15	15	DED1*15		5	15	DED3*15		1.5	15	DED10*15		0.5	15	DED30*15		0.3	15	DED50*15
	20	20	DED1*20		6.67	20	DED3*20		2	20	DED10*20		0.67	20	DED30*20		0.4	20	DED50*20
	30	30	DED1*30		10	30	DED3*30		3	30	DED10*30		1	30	DED30*30		0.6	30	DED50*30
	40	40	DED1*40		13.3	40	DED3*40		4	40	DED10*40		1.33	40	DED30*40		0.8	40	DED50*40
	50	50	DED1*50		16.7	50	DED3*50		5	50	DED10*50		1.66	50	DED30*50		1	50	DED50*50
	60	60	DED1*60		20	60	DED3*60		6	60	DED10*60		2	60	DED30*60		1.2	60	DED50*60
	75	75	DED1*75		25	75	DED3*75		7.5	75	DED10*75		2.5	75	DED30*75		1.5	75	DED50*75
100	100	DED1*100	33.4	100	DED3*100	10	100	DED10*100	3.34	100	DED30*100	2	100	DED50*100					

DED SELECTION EXAMPLE



SPECIFICATIONS

PARAMETER	DESCRIBE
Input	220VAC \pm 10% ,Maximum 3.0A.(optional DC24V)
Output	0.5~50kVMaximum output Voltage option. 1.5W~100W Maximum output power option.
Stability	25ppm per hours after 1/2 hour warm-up.
Temperature Coefficient	\leq 25ppm/ $^{\circ}$ C.
Ripple	0.1% p-p of output voltage.(Low ripple customization)
Voltage/Current Monitor	0 ~ +10Vdc corresponds to 0 to maximum output, accuracy: \pm 1%.
Voltage Local Programming	Internal potentiometer to set voltage from 0 to maximum output voltage.
Voltage Remote Programming	0 ~ +10Vdc proportional from 0 to maximum output voltage.Zin=10M Ω
Current Local Programming	Internal potentiometer to set current from 0 to maximum output current.
Current Remote Programming	0 ~ +10Vdc proportional from 0 to maximum output current.Zin=10M Ω
Voltage Load Regulation	0.01% (no load to full load change).
Voltage Line Regulation	\pm 0.01%(input voltage line change \pm 10%).
Current Load Regulation	0.01% (no load to full load change).
Current Line Regulation	\pm 0.01% (input voltage line change \pm 10%).
Operating Temperature	0 $^{\circ}$ C~+50 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C
Humidity	20%~85% RH, non-condensing.
Dimensions	6.48" H \times 5.11" W \times 10.8" D (165mm \times 130mm \times 275mm)
Weight	2.5kg~6.2kg

DED ANALOG INTERFACE ^D

1	Ground	SGND
2	Voltage Monitor	0~+10Vdc=0tomaximumoutput,Zout=10k Ω
3	Current Monitor	0~+10Vdc=0tomaximumoutput,Zout=10k Ω
4	Interlock Output	Alternate Interlock Configurations
5	+10Vdc Reference	+10 Vdc @ 1mA , maximum
6	NC	NC
7	Voltage Program Input	0~+10Vdc=0tomaximumoutput,Zin=10M Ω
8	Local Voltage Program	10 turn pot, screwdriver adjust
9	NC	NC
10	Current Program Input	0~+10Vdc=0tomaximumoutput,Zin=10M Ω
11	Local Current Program	10 turn pot, screwdriver adjust
12	Interlock Output	Optional Interlock Output +12vdc
13	Interlock Coil	With 12 pins shorts, Interlocking closed
14	NC	NC
15	Ground	Ground

RS-232/485DIGITAL INTERFACE ^D

SIGNAL		SIGNAL	
1	N/C	6	N/C
2	TXD/Transmit Data	7	RS485B(optional)
3	RXD/Receive Data	8	N/C
4	N/C	9	RS485A(optional)
5	GND		

DIMENSIONS

