



- **OPTIONAL USB2.0,RS-232 AVAILABLE**
- **50kV AT 2 mA. 100W MAX**
- **OVERVOLTAGE ,ARC& SHORT CIRCUIT PROTECTION**
- **VOLTAGE & CURRENT PROGRAMMING**
- **LOCAL AND REMOTE PROGRAMMING**
- **SAFETY INTERLOCK**
- **CUSTOMIZATION AVAILABLE**



HANDY TYPE

INTRODUCTION

Wisman's DED Series modular high voltage power supplies offer positive or negative output voltages from 0.5kV to 50kV. High voltage can be linearly ramped up. An optional USB 2.0, RS-232 is available. The DED incorporates local and remote programming, safety interlock, short-circuit, arc, and overload protection.

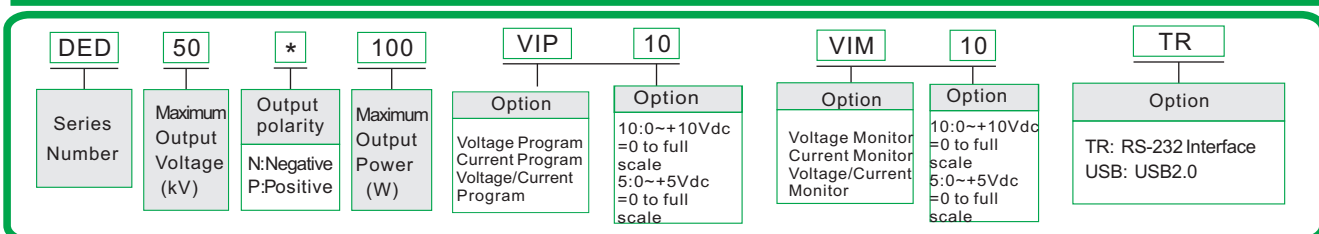
TYPICAL APPLICATIONS

Capacitor Charging, Electronic Component Aging, Insulation Test, High Voltage Testing, Electron Beam / Ion Beam, Focus Ion Beam, Ion Impinging, Lithography Technology, Electrostatic Applications, Electrostatic Deflexion, Electrospinning, Electrophoresis 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



DED SPECIFICATIONS

PARAMETER	DESCRIBE
Input	86~256VAC ,Maximum 3A.
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	≤25ppm/°C.
Ripple	0.1% p-p of output voltage.
Voltage/Current Monitor	0 ~ +10Vdc corresponds to 0 to maximum output, accuracy: ±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.
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.
Voltage Load Regulation	0.01% (no load to full load change).
Voltage Line Regulation	±0.01%(input voltage line change ± 10%).
Current Load Regulation	0.01% (no load to full load change).
Current Line Regulation	±0.01% (input voltage line change ± 10%).
Operating Temperature	0°C~+50°C
Storage Temperature	-40°C~+85°C
Humidity	20%~85% RH, non-condensing.
Dimensions	7.27" H×5.11" W×12.18" D (185mm×130mm×310mm)
Weight	2.5kg~6.2kg

RS-232 DIGITAL INTERFACE ^D

SIGNAL		SIGNAL	
1	N/C	6	RA+/Receive
2	TXD/Transmit Data	7	RB-/Receive
3	RXD/Receive Data	8	TB-/Transmit
4	N/C	9	TA+/Transmit
5	SGND		

USB DIGITAL INTERFACE ^D

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

DIMENSIONS

