



- **OPTIONAL RS-232 OR RS-485 IS AVAILABLE**
- **COMPACT AND HIGH POWER OF 100W**
- **ULTRA LOW RIPPLE 0.001%**
- **HIGH STABILITY, HIGH RELIABILITY**
- **HIGH EFFICIENCY WHICH COMES CLOSE 90%**
- **VOLTAGE (OPTION CURRENT) PROGRAMMING**
- **LOCAL AND REMOTE CONTROL**
- **OEM CUSTOMIZATION AVAILABLE**



B
MODULES

INTRODUCTION

The ME Series is a compact high power HV module designed, offering tight regulation, high stability and low ripple, All models are provided local internal potentiometer, External potentiometer or an external voltage reference programming, monitoring, arc, short circuit and overload protection. An optional RS-232 or RS-485 is available.

TYPICAL APPLICATIONS

Mass spectrometry, Microchannel plates (MCP), Electron microscope, Electrostatic discharge Testing ESD, Ultrasonic transducers, Electron multiplier Detectors Electrophoresis, DNA sequencing, Electron Beam and Ion Beam, Electrostatic chuck, High voltage bias, Hipot Testing, Cable Testing, Provides power to the pulse power, Electrospinning, Capacitor Charging, Semiconductor Testing, Electronic component aging, Gas Chromatography, Blood Analysis, Cathode X-Ray, SPECT Scanner, PET Scann, Medical, Chemical Applications, Science, Laboratory Applications, Industrial Applications.

ME SELECTION TABLE

kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL
0.6	10	6	ME0.6*6	3	2	6	ME3*6	10	0.6	6	ME10*6	20	0.3	6	ME20*6
	15	9	ME0.6*9		3	9	ME3*9		0.9	9	ME10*9		0.45	9	ME20*9
	25	15	ME0.6*15		5	15	ME3*15		1.5	15	ME10*15		0.75	15	ME20*15
	50	30	ME0.6*30		10	30	ME3*30		3	30	ME10*30		1.5	30	ME20*30
	100	60	ME0.6*60		20	60	ME3*60		6	60	ME10*60		3	60	ME20*60
	125	75	ME0.6*75		25	75	ME3*75		7.5	75	ME10*75		3.75	75	ME20*75
	167	100	ME0.6*100		33.33	100	ME3*100		10	100	ME10*100		5	100	ME20*100
1.2	5	6	ME1.2*6	5	1.2	6	ME5*6	12	0.5	6	ME12*6	25	0.24	6	ME25*6
	7.5	9	ME1.2*9		1.8	9	ME5*9		0.75	9	ME12*9		0.36	9	ME25*9
	12.5	15	ME1.2*15		3	15	ME5*15		1.25	15	ME12*15		0.6	15	ME25*15
	25	30	ME1.2*30		6	30	ME5*30		2.5	30	ME12*30		1.2	30	ME25*30
	50	60	ME1.2*60		12	60	ME5*60		5	60	ME12*60		2.4	60	ME25*60
	62.5	75	ME1.2*75		15	75	ME5*75		6.25	75	ME12*75		3	75	ME25*75
	83.33	100	ME1.2*100		20	100	ME5*100		8.33	100	ME12*100		4	100	ME25*100
2	3	6	ME2*6	7.5	0.8	6	ME7.5*6	15	0.4	6	ME15*6	30	0.2	6	ME30*6
	4.5	9	ME2*9		1.2	9	ME7.5*9		0.6	9	ME15*9		0.3	9	ME30*9
	7.5	15	ME2*15		2	15	ME7.5*15		1	15	ME15*15		0.5	15	ME30*15
	15	30	ME2*30		4	30	ME7.5*30		2	30	ME15*30		1.0	30	ME30*30
	30	60	ME2*60		8	60	ME7.5*60		4	60	ME15*60		2.0	60	ME30*60
	37.5	75	ME2*75		10	75	ME7.5*75		5	75	ME15*75		2.5	75	ME30*75
	50	100	ME2*100		13.33	100	ME7.5*100		6.67	100	ME15*100		3.33	100	ME30*100

ME SELECTION EXAMPLE

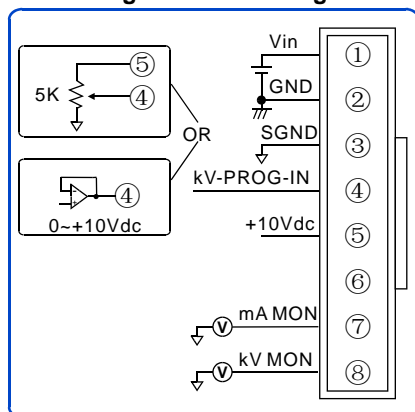
ME	30	*	60	VIP	10	VIM	10	M1	AX	LRX	LX
Series Number	Max. Output Voltage (kV)	Output Polarity P: Positive polarity N: Negative polarity	Max. Output Power (W)	Option VP: Voltage Programming IP: Current Programming VIP: Voltage and Current Programming	Option 10: 0 ~ +10Vdc Programming= 0 to Max. Output 5: 0 ~ +5Vdc Programming= 0 to Max. Output	Option VM: Voltage Monitor IM: Current Monitor VIM: Voltage and Current Monitor	Option 10: 0 ~ +10Vdc Monitor = 0 to Max. Output 5: 0 ~ +5Vdc Monitor = 0 to Max. Output	Option M1-M5	Option X=0, 1, 2, 3, 5, 8, N. Arc (N=ARC, does not shutdown)	Option X=1, 2, 3, 4, 5. 1: 0.01% 2: 0.1% 3: 0.05% 4: 0.005% 5: 0.001%	Option LX=Unshield cable 0.7m (X option) LCX: shield cable 0.7m (X option)

ME SPECIFICATIONS

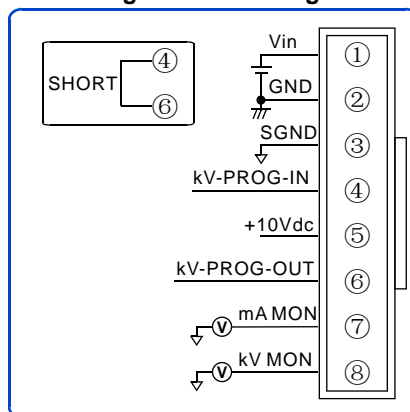
PARAMETER	DESCRIBE
Input	24Vdc±5% , 6.0A maximum.
Output	0.6kV, 1.2kV, 2kV, 3kV, 5kV, 7.5kV, 10kV, 12kV, 15kV, 20kV, 25kV, 30kV Maximum output Voltage option. 1.5W, 3W, 6W, 9W, 15W, 30W, 60W Maximum output power option.
Stability	0.01% per 8 hours after 1/2 hour warm-up.
Temperature Coefficient	≤25ppm/°C.
Ripple	≤0.001%Vp-p.
Voltage/Current Monitor	0~+10 volt corresponds to 0 to maximum output, Zout=10kΩ, 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, Zin=10MΩ.
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=10MΩ.
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~+40°C.
Storage Temperature	-40°C~+85°C .
Cooling	0~60W:Convection cooled;60W~100W:fan cooled.
Humidity	20%~85% RH, non-condensing.
Dimensions	10kV~20kV: 1.50 H x 3.94 W x 7.09 D (38.00mm x 100.00mm x 180.00mm) 30kV: 1.69 H x 3.94 W x 8.07 D (43.00mm x 100.00mm x 205.00mm)
Weight	20kV: 1kg ; 30kV: 1.45kg.

ME ANALOG INFORMATION

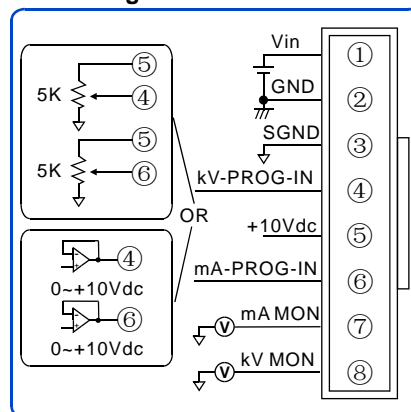
M1: Voltage External Program



M2: Voltage Internal Program

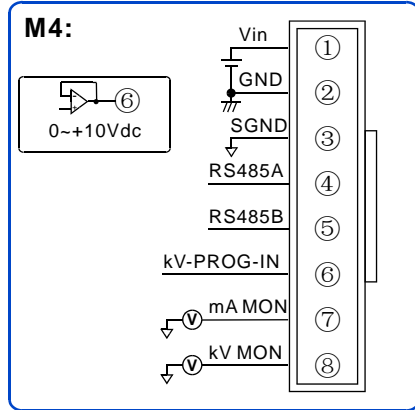


M3: Voltage and Current Control

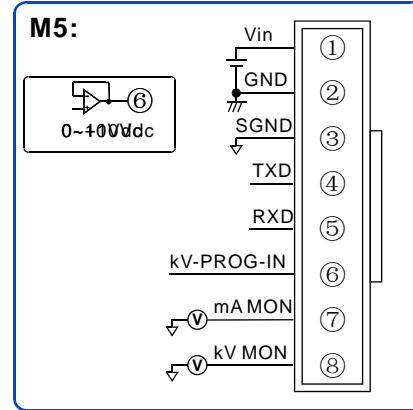




ME DIGITAL INFORMATION(RS485)



ME DIGITAL INFORMATION(RS232)



ME DIMENSIONS

DIMENSIONS:in.[mm]

OUTPUT	A	B	C	D	E	F
0~20kV	7.086[180.0]	6.692[170.0]	6.299[160.0]	3.937[100.0]	2.756[70.0]	1.496[38.0]
0~30kV	8.071[205.0]	7.677[195.0]	7.283[185.0]	3.937[100.0]	3.543[90.0]	1.693[43.0]

