



- 8kV~60kV,300W
- High speed dynamic voltage regulation
- Voltage-current regulation
- Local and remote control
- OEM Customization available
- Overload, arc and short circuit protection
- Security interlock function

## INTRODUCTION

The MEC Series is a rang of precision, medium power, high voltage power ,supplies that comply with current international safety and EMI directives. We packaged this series as space saving modules and avoided the expense of front panels and displays. However, no compromises were made to performance and operating characteristics. This series of power supplies provides excellent value for a wide range of demanding application.

The MEC Series 300W high voltage power supplies are air insulated, fast responding units with tight regulation and low arcing current .

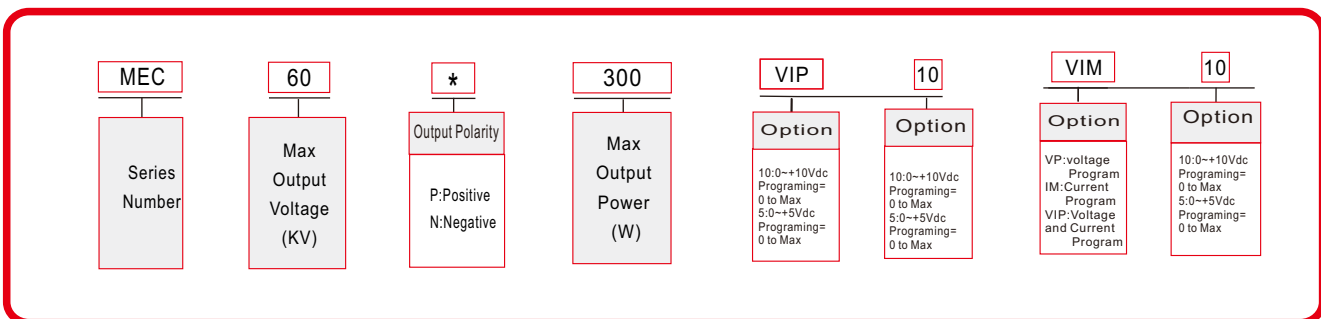
## TYPICAL APPLICATIONS

Electrostatic discharge(ESD),Electrophoresis,DNA Sequencing,Electron beam ,Ion beam ,Pulse power supply, Electrostatic sucker, High Voltage Bias, Withstand voltage test, Electronic component aging, Electrostatic spinning Capacitor charging, Semiconductor test, Power cable test, Electron multiplier detector, Gas chromatography, Blood analysis,Cathode ray tube, Life Science, Medical chemical industry, Scientific experiments, Industrial application.

## MEC SELECTION TABLE

kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL	kV	mA	P(W)	MODEL
8	37.5	300	MEC8*300	15	20	300	MEC15*300	30	10	300	MEC30*300
10	30	300	MEC10*300	20	15	300	MEC20*300	40	7.5	300	MEC40*300
12	25	300	MEC12*300	25	12	300	MEC25*300	60	5	300	MEC60*300

## MEC SELECTION EXAMPLE



## SPECIFICATIONS

ISO9001:2015

PARAMETER	DESCRIBE
Input Voltage	180Vac~264Vac 47~63Hz.
Output Voltage	8kV~60kV ,300W
Stability	0.01%/Hours, 0.05%per 8 hours after 0.5hour warm-up.
Temperature Coefficient	0.01%/°C
Ripple	0.05% rms
Voltage/Current Monitor	0~+10Vdc proportional to 0 to 100% output voltage Zout=10kΩ , Accuracy: ± 1%
Local voltage programming	Internal multi-turn potentiometer to set voltage from 0 to 100% output voltage
Remote voltage programming	0~+10Vdc proportional from 0 to 100% output voltage Zin=332kΩ
Voltage load regulation	0.01% (no-load to rated load)
Voltage line regulation	± 0.01% (change in rated current at any voltage change)
Current line regulation	0.01% (30%~100% to voltage change)
Current load regulation	± 0.01% (30%~100%to input voltage change)
Humidity	20% ~ 85% RH non-condensing
Weight	5kg
Operating/storage temperature	-20~+50/-40 ~ +85
Dimension	(0-30kV)14.76"D* 7.27"W *4.76"H(375.5mm*185mm*121mm)
Dimension	(30-60kV)20.44"D*7.27"H*4.76"H(520mm*185mm*121mm)

(The above parameters are met at 5%~100% rated voltage output and decreased at 0~5%)

## MEC ANALOG INTERFACE

J2	Port information	
	Current display	0~+5Vdc=0 rated output, Zout=10kΩ
	N/C	No connection
	Voltage remote control programming	0~+10Vdc 0 to 100% rated output Zin=332kΩ
	Current remote control programming	0~+10Vdc 0 to 100% rated output Zin=332kΩ
	Lock interlock	Ground interlock start
	Current error limit selection	short relay voltage with 7pin
	Current error limit selection	short relay voltage with 6pin
	Voltage and Current mode status	High level voltage mode, low level current mode
	GND	GND short with 10pin
10	Signal Ground	Signal Ground
11	Signal Ground	Signal Ground
12	High pressure enable	+15high start, suspended high voltage close
13	High voltage on/off	Low high voltage off, high high voltage on
14	Voltage display	0~+10Vdc 0 to 100% rated output Zout=10kΩ
15	N/C	No connection
16	Local programming	0~+10Vdc 0 to 100% rated output
17	+10Vdc voltage reference	+10Vdc output reference, maximum 1mA
18	+10Vdc voltage reference	+10Vdc output reference, maximum 1mA
19	N/C	No connection
20	N/C	No connection
21	N/C	No connection
22	Signal Ground	GND
23	Signal Ground	GND
24	+15Vdc	+15Vdc output, max current 1mA
25	N/C	No connection

Voltage reference ground in the table is the signal ground

## MEC MACHINE DIMENSION

