



- Output Voltage Range: 1kV–15kV
- Single Output and Bipolar Models
- Input to Output Isolation: >500MΩ
- Automatic Polarity Reversal
- Automatic Discharge
- Short Circuit and Open Circuit Protection
- Built-in RF Filtering Available
- Analog / RS232 / DeviceNet (option)

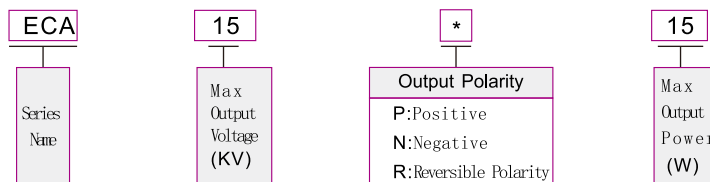
INTRODUCTION:

Wisman ECA Series is a high voltage power system with floating outputs up to 15kV ($\pm 7500V$) with both bipolar and unipolar versions. The output polarity can be reversed automatically with an input signal to the remote interface connector (25 pin D-type female). Input power is 24VDC via 3-pin Molex type, non-reversible quick disconnect. MHV connectors are used for the HV outputs, and a BNC for the center tap connection.

APPLICATION :

Electrostatically driven material handling, semiconductor wafer processing, non-mechanical transfer of flat plates or other processed materials sensitive to mechanical handling.

SELECTION EXAMPLE



ECA SPECIFICATIONS

Description	Specifications
Floating Bipolar Output	Minimum path to chassis ground from any HV output terminal >50MΩ
Output to Input Isolation	>500MΩ based on standard 5kV DC hi-pot tests)
Output Voltage	Output voltage is programmable and continuously variable on all models
Output Current Limit	Output current limit is programmable and continuously variable on all models
Output Stability	1% or better of full output
Output Ripple	Less than 0.5% at >35kHz operating frequency
Output Voltage Linearity	Better than ±1% from 10% to 100% output
Output Polarity Reversal	On command or programmable automatic. Note: ESC-HV10 does not include polarity reversal
Output Voltage Balance	Better than 1% for matched loads (dual pole units)
Output Safety Discharge Relay	On command or programmable automatic via 100kΩ resistor network from HV output to chassis ground
Operating Ambient Temperature	0 to +40°C
Storage Temperature / Humidity / Air Pressure	0 to +70°C
Humidity	10-90% non-condensing
RF Filtering	RF filtering is included on all models except ESC-HVxx
DC Output Connection	3 pin Molex type, non-reversible quick disconnect. 10ft (3m) included. 24VDC input. Molex P/N - consult factory
DC Power Input Connection	MHV connectors for HV+ and HV-, (SHV for model ESC-HVXP) BNC connector for HV-CT (not used on models ESC-1D or ESC-3D)
Remote Signal Interface	25 pin D-type female for analog remote (DB-25s) P pin D-type female for RS-232 (Db9s)
Mounting	Standard EIA rack mounting with ½ rack filler panel
Cooling	Convection (do not block vents)
Weight	2 to 5lbs. (907 to 2267g) approx. depending on model

APPLICATION SPECIFIC

Dimensions

