



- Output voltage range: 0~±3kVdc
- Output current 0~±6.5mA or peak capacity is 10mA
- Lockable front panel control interface
- Traceable calibration certificate supplied with each unit
- Support Coulombic and Johnsen-Rahbek ESC technology
- Upload and store electrostatic chuck configuration files to the device
- Wafer detection including no wafer, wafer present or wafer clamped status

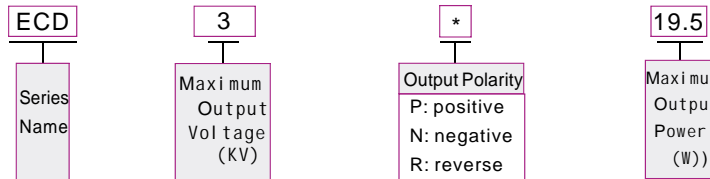
## INTRODUCTION

Wisman's ECD series of software-driven electrostatic chuck power supplies offer a range of features to meet a wide variety of demanding applications. The instrument uses Wisman Amplifier technology that has been shown to increase efficiency and throughput up to three times that of other power supplies. Reduce backside gas errors, increase throughput, and eliminate Wafer sticking/popping issues; control parameters such as overcurrent, presence of wafer and wafer clamp threshold, clamp voltage, offset voltage and internal or external amplitude/Offset control; versatility of amplitude/offset and output control during adjustment; control using rear panel I/O, serial computer commands, or front panel controls Output; configure custom clamping and declamping sequences and waveforms. The versatile and reliable performance of Wisman's ECDs allows for a wide range of unique tools and processes use without adding new costs for each unique tool or process in your facility.

## APPLICATION

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

## SELECTION EXAMPLE



## FEATURE DESCRIPTION

ISO9001:2015

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PARAMETER	DESCRIPTION
Input	DC24V,2A
Output voltage	0 to ±3kV DC ,max.
Output current	0 to ±6.5mA DC, peak capability is 10mA
Output phase	Output voltage A (reference phase): 0 to ±3 kV Output Voltage B (Phase B = [-1] x Phase A): 0 to ±3kV
Voltage display	Scale: 1/300V
Phase B DC	Accuracy better than 0.5% of full scale
Offset voltage	less than 10mA
Output noise	Below 50mVrms
Current display	Scale: 1/300V
Temperature	0~+35/°C
Relative humidity	0~85%, non-condensing
Altitude	up to 2000 meters
Voltage display	Display ratio: 1:1000; Accuracy: <±0.1%; Offset voltage: <2mV; Noise: <10mVrms; Zout=47Ω
Current display	Display ratio: 1V/200uA; Accuracy: >±0.1%; Offset voltage: <±10mV; Noise: <10mVrms; Zout=47Ω
Working Temperature and Humidity	0~40°C, 0~85%, non-condensing
Dimensions	88.1 mm H x 431.8 mm W x 531.9 mm (3.47" H x 17" W x 20.9" D).
Weight	7kg

