

E-Chuck HV Power Supplies

EC Series Reversible type 200w

1059-03Ac-1



FEATURES

- Specially designed for Electrostatic Chuck applications
- It has 2 output channels and suitable for bi-polar system with just 1 unit
- Reversible output
- Smooth release of wafer with polarity reverse function
- Compact and high power

SUMMARY

This is a high voltage power supply developed especially for electrostatic chuck applications. Chuck ON/OFF is possible by DC ON/OFF. Smooth release of wafer is also possible by reversing the polarity. This is a useful power supply suitable both for uni-polar systems(2ch) or bi-polar systems.

SPECIFICATIONS

Input voltage/current	115VAC \pm 10% 50/60Hz 1 ϕ 7Amax
Chuck ON/OFF	<ul style="list-style-type: none"> · HV switch on the front panel ON/OFF(for 2ch)···Local mode · Remote switch ON/OFF(for each channel)···Remote mode · Output voltage control with potentiometer on the front panel (for each channel) · Output voltage control with external voltage source (for each channel) · AC input voltage ON/OFF (for 2ch)
Output voltage control	Local : 10-turn potentiometer on the front panel (for each channel) Remote : external control voltage source (for each channel) Vcon-in = 0 to 10V Input impedance greater than 10k Ω
Polarity Change	Local : Toggle switch(for each channel) Remote : contact input(for each channel)
Ripple	0.1%rms
Digital Panel Meter	3-digit digital meter for each channel (voltage \leftrightarrow current select)
Output Monitor	Voltage : 0 to \pm 10V(for each channel) Current : 0 to \pm 10V(for each channel) Output Impedance 1k Ω
Protection	Over current with automatic crossover, Over voltage(limited at 110%), Output short circuit, arc protection and interlock
Forced Discharge	Function to ground output compulsory for quick discharge by remote control(individual ground terminal for each channel)
Temperature	0°C to 40°C (Operation) -20°C to +60°C (Storage)
Accessories	Input AC cable (with 3pin plug) 2.5meters (1) Output HV cable with HV-BNC connector on both end 5 meters (2) (for 6kV, 10kV model CN-15-MHVP 5meters (2)) Instruction Manual (1)
Power ON Status	Power ON(AC115V supply and power switch ON) status by signal at point of contact
Local/Remote Status	Local/Remote status by TTL level signal
Over Current Status	Over current status (when short circuit) by TTL level signal

LINE UP

MODEL	Output Voltage (each channel)	Output Current (each channel)
EC- 1 R200 \times 2	-1kV to +1kV	200mA
EC- 3 R 67 \times 2	-3kV to +3kV	67mA
EC- 5 R 40 \times 2	-5kV to +5kV	40mA
EC- 6 R 33 \times 2	-6kV to +6kV	33mA
EC-10R 20 \times 2	-10kV to +10kV	20mA

OPTION

- LRy Output relay : Function to separate PS and load electrically by remote control
- LRf(13.56M) RF filter : 13.56MHz
- LRf(500k) RF filter : 500kHz
- L(220V) 200VAC to 240VAC 1 ϕ input
- L(230V) 210VAC to 250VAC 1 ϕ input

* Wide range filter frequency is available optionally. Please consult to sales staff.

DIMENSIONS inch(mm)

MODEL	Height(H)	EIA(P1)	JIS(P2)	Depth(D)	Weight(lb)
EC- 1 R200 \times 2	7"(177)	4"(101.6)	5.9"(150)	21.6"(550)	44.1
EC- 3 R 67 \times 2	7"(177)	4"(101.6)	5.9"(150)	21.6"(550)	
EC- 5 R 40 \times 2	7"(177)	4"(101.6)	5.9"(150)	21.6"(550)	
EC- 6 R 33 \times 2	7"(177)	4"(101.6)	5.9"(150)	21.6"(550)	
EC-10R 20 \times 2	8.7"(222)	5.7"(146.1)	7.8"(200)	24"(610)	