

E-Chuck HV Power Supplies

EJC Series Bi-Polar type 6w 30w

1061-01Ad-1



FEATURES

- Specially designed for Electrostatic Chuck applications
- Fast response(10ms) with electronically polarity change
- Bi-polar output
- Integrated RF filter(optional)
- Long life and high reliability with no relay

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.

SPECIFICATIONS

Input Voltage/Current 115VAC $\pm 10\%$ 50/60Hz 1 \emptyset /1Amax(6W) 3Amax(30W)

Chuck ON/OFF

- HV switch on the front panel ON/OFF...Local mode
- Remote switch ON/OFF...Remote mode
- Output voltage control with potentiometer on the front panel
- Output voltage control with external voltage source
- AC input voltage ON/OFF

Output Voltage Control

Local : 10-turn potentiometer on the front panel
 Remote : External control voltage source
 $V_{con-in} = -10V$ to $+10V$
 Input impedance greater than 10k Ω

Ripple Local/Remote change is with toggle switch on the front panel
0.1%rms

Digital Panel Meter 3-digit digital meter (voltage \leftrightarrow current select)

Output Monitor Voltage: -10V to +10V Current: -10V to +10V
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(Output is grounded when contact is short)

Temperature 0 $^{\circ}$ C to 40 $^{\circ}$ C(Operation) -20 $^{\circ}$ C to +60 $^{\circ}$ C(Storage)

Accessories Input AC cable 2.5meters (1)
Output HV cable with HV-BNC connector on both end
5 meters (1)
Instruction Manual (1)

Power ON Status Power ON(AC 115V supply and power switch ON) status by
signal at point of contact.

Local/Remote Status Local / Remote status by TTL signal

Over Current Status Over current status (when short circuit) by TTL signal

LINE UP

MODEL	Output Voltage	Output Current
EJC-1B6	-1kV to +1kV	6mA
EJC-2B3	-2kV to +2kV	3mA
EJC-3B2	-3kV to +3kV	2mA
EJC-4B1.5	-4kV to +4kV	1.5mA
EJC-5B1.2	-5kV to +5kV	1.2mA
EJC-1B30	-1kV to +1kV	30mA
EJC-2B15	-2kV to +2kV	15mA
EJC-3B10	-3kV to +3kV	10mA
EJC-4B7.5	-4kV to +4kV	7.5mA
EJC-5B6	-5kV to +5kV	6mA

DIMENSIONS mm(inch)

140H \times 430D \times 212W (5.5 \times 16.9 \times 8.4)

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

-LPo Polarity change Local : toggle switch
Remote : contact input

-L(220V) 200VAC to 240VAC 1 \emptyset input

-L(230V) 210VAC to 250VAC 1 \emptyset input

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

* Single polar type is also available.