

# ***EJC*** series

Single channel, Handy Bi-polar type  $\pm 1\text{kV}$  to  $\pm 5\text{kV}/6\text{W}$  30W



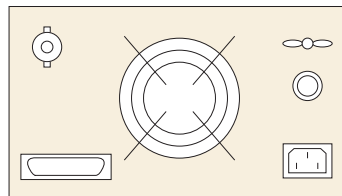
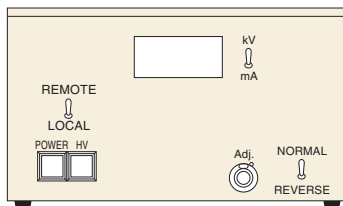
## SUMMARY

This is a high voltage power supply developed especially for electrostatic chuck application. Chuck ON/OFF is possible by DC ON/OFF. Smooth release of wafer is also possible by reversing the polarity.

## FEATURES

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

## DIMENSIONS inch(mm)



5.5Hx16.9Dx8.35W  
(140x430x212)

## 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  
Vcon-in = -10V to +10V  
Input impedance greater than 10k $\Omega$   
Local/Remote change is with toggle switch on the front panel
- Ripple** 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 $\Omega$
- 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°C to 40°C(Operation) -40°C to +85°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

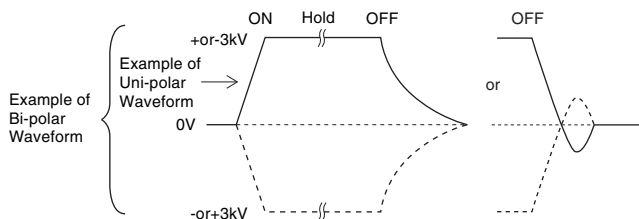
MODEL	Output Voltage	Output Current
EJC-1B6	-1kV to +1kV	6mA
EJC-2B3	-2kV to +2kV	3mA
EJC-3B2	-3kV to +3kV	2mA
EJC-4B1.5	-4kV to +4kV	1.5mA
EJC-5B1.2	-5kV to +5kV	1.2mA
EJC-1B30	-1kV to +1kV	30mA
EJC-2B15	-2kV to +2kV	15mA
EJC-3B10	-3kV to +3kV	10mA
EJC-4B7.5	-4kV to +4kV	7.5mA
EJC-5B6	-5kV to +5kV	6mA

## 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.  
\* When ordering, suffix L mark(option mark) to the model number.  
<e.g.> EJC-1B6-LPoRf(13.56M)Ry(220V)  
EJC-1B6-LRf(500k)(200V)

## Example of waveform



**Matsusada Precision Inc.**

For products > [www.matsusada.com/product](http://www.matsusada.com/product) For contact > [www.matsusada.com/contact](http://www.matsusada.com/contact)

San Jose Office : 2570 N.First Street Suite 200 San Jose, CA 95131  
New York Office : 80 Orville Drive Suite 100 Bohemia, NY 11716  
Dallas Office : 5430 LBJ Freeway, Suite 1200 Dallas, TX 75240  
International Office : Kyoto-City, Kyoto Japan

Tel: +1-408-273-4573 Fax: +1-408-273-4673  
Tel: +1-631-244-1407 Fax: +1-631-244-1496  
Tel: +1-972-663-9336 Fax: +1-972-663-9337  
Tel: +81-75-229-6355 Fax: +81-75-229-6366

Headquarters : 745 Aoji-cho Kusatsu Shiga 525-0041 Japan  
Tel: +81-77-561-2111 Fax: +81-77-561-2113