

# Model: FAG502XP



- ◇ Low ripple high stability
- ◇ Acceleration power supply 0+5kV
- ◇ Filament current 0-3.5A
- ◇ Including all necessary power supply for controlling CMA spectroscopy
- ◇ Board for remote control is included as standard
- ◇ Special order as OEM is acceptable
- ◇ Designed under RoHS

## Power supply for electron gun on Auger microscope and Auger electron spectroscopy (CMA)

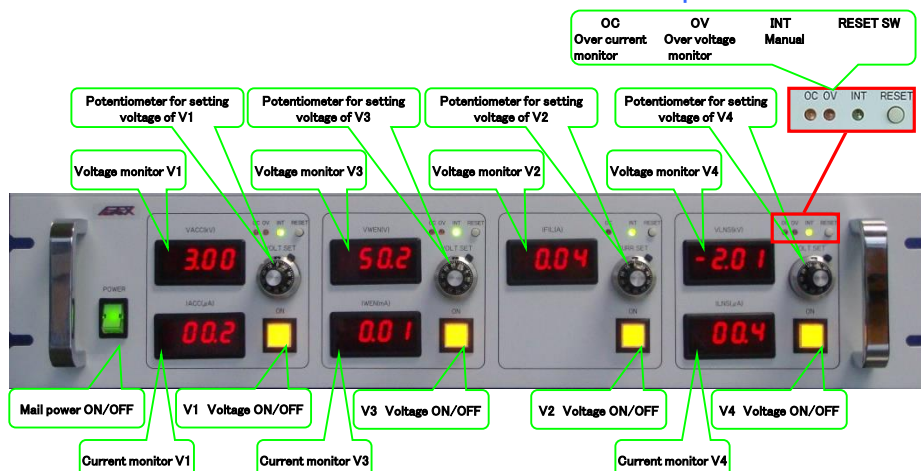
FAG502XP is the product that has been developed for Auger electron spectroscopy (CMA) and electron gun on Auger microscope. It is able to control thermal electron gun and CMA spectroscopy with high accuracy. Also as the board for external control is mounted as standard, it is possible to make the sequential control.

### Application

- For controlling Auger electron spectroscopy (CMA)
- For electron gun of Scanning electron microscope

## Specifications

- V1 Power supply (Accelerating voltage)
  - Output Voltage : -0.05 ~ -5kV (GND base)
  - Output current : 100μA max
  - Ripple noise : 20mVp-p (4ppm) or less
  - Stability : 20ppm/1h or less
- V2 Power supply (Filament current)
  - Floating based on V1)
  - Output voltage : 0 ~ 3.5A
  - Ripple current : 13mA p-p or less
  - Stability : 50ppm/1h or less
- V3 Power supply (Floating based on V1)
  - Output voltage : 0 ~ +70V
  - Output current : 5mA max
  - Ripple noise : 10mVp-p or less
  - Stability : 50ppm/1h or less
- V4 Power supply
  - Output voltage : -0.02kV ~ -2.5kV (GND Base)
  - Output current : 100μA max
  - Ripple noise : 20mVp-p or less (8ppm)
  - Stability : 100ppm/1h or less
- Common specifications
  - Input voltage Single phase : 100VAC 50/60Hz
  - Output connector : HV BNC
  - Local : Potentiometer on front panel
  - Remote : External input 0 ~ +10VDC (BNC)
  - Over voltage and current : 110% of maximum
  - Safety function : Interlock protection  
Preventing voltage out as interlock off
  - Size : 480(W) × 475(D) × 199(H)
  - AC cable and instruction manual included



EXT I/O CONNECTOR (ACC, VVEN, VLNS)

	SIGNAL
1	HV ON
2	com(pin1)
3	O.V
4	com(pin3)
5	O.C
6	com(pin5)
7	VOLT MONITOR(+5V:MAX)
8	com(pin7)
9	CURR MONITOR(+5V:MAX)
10	com(pin9)
11	EXT RESET
12	com(pin11)
13	EXT HV ON
14	com(pin13)
15	NC

EXT I/O CONNECTOR (FIL)

	SIGNAL
1	FIL ON
2	com(pin1)
3	NC
4	NC
5	O.C
6	com(pin5)
7	NC
8	NC
9	CURR MONITOR(+5V:MAX)
10	com(pin9)
11	EXT RESET
12	com(pin11)
13	EXT FIL ON
14	com(pin13)
15	NC