

Model : FE303XP



* controller panel is optional

Product specifications

Input voltage

Stability:

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90V~240VAC single phase	e 1.5A(50,60HZ)	
Accelerator supply (Referenced to GND)		
Output voltage:	-1kV~-30kV	
Absolute voltage accuracy:	Less than 0.1%	
Set ability:	16bit (0.5V LSB)	
Output current:	200 µ A max	
Ripple noise:	Less than 2ppm 60mVp-p@30kV	
Stability:	15ppm/1hr after 1hour warm up	
temperature coefficient:	10ppm/°C	
Filament supply (Referenced to Accelerator)		
Output voltage:	0~5V	
Set ability:	16bit (1mA LSB)	
Output current:	0~3.2A	
Ripple noise:	Less than 5mA p-p @3A	
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Absolute current accuracy: ±0.01A 20ppm/1hour @ 3.0A temperature coefficient: 15ppm/°C

Suppressor supply (Referenced to Accelerator)

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	Output voltage:	-0.03kV~ -0.6kV
	Absolute voltage accuracy:	Less than 1.0% @300V
	Set ability:	14bit (0.11V LSB)
	Output current:	150 μ A max
	Ripple noise:	Less than 20mVp-p
	Stability:	50ppm/1hr after 1hour warm up
	temperature coefficient:	25ppm/°C
Extractor supply (Referenced to Accelerator)		
	Output voltage:	+0.4kV~+8.0kV

Custom multiple output power supply for "TFE-type scanning electron microscope".(High performance type) **Application**

- Scanning electron microscope
- Electron probe micro analyzer
- FE-Auger electron microscopy

The other specifications

All the outputs provide with the over voltage protection and the over current protection.

External control: Optical isolated RS232C Interlock: vacuum, thermo, HV-connection HV connector: Customer specification Output monitor: Accelerating voltage, Lens voltage -5°C~ +40°C Storage temp range: Operating temperature Limit: +10°C~ +40°C Humidity: 80% or less Insulation method: Air insulation (one molding) $480 \text{mm}(\text{W}) \times 450(\text{D}) \times 249(\text{H})$ Externals size: Weight: 33kg

The model "FE303XP" is an integrated multiple output high voltage power supply specifically developed for TFE type scanning electron microscope.

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