# Model: XR303XP



### **Product specifications**

#### Input voltage

90V~240VAC single phase 1.5A(50,60HZ) Accelerator supply (Referenced to GND) -1k~-30kV Output voltage: Absolute voltage accuracy: Less than 0.1% Set ability: 16bit (0.5V LSB) Output current: 500 µ A Ripple noise: Less than 50mVp-p Stability: 10ppm/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:	0~3A
Ripple noise:	Less than 10mA p-p @3A
Absolute current accuracy:	±0.01A
Stability:	50ppm/1hour @ 3.0A
temperature coefficient:	50ppm/°C
Suppressor supply (Referenced to Accelerator)	

### Suppressor supply (Referenced to Accelerator)

Output voltage: -30V~ -1.0kV 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 20ppm/1hr after 1hour warm up Stability: 25ppm/°C temperature coefficient: Extractor supply (Referenced to Accelerator)

Ripple noise:

Stability:

+0.6kV~+7.0kV Output voltage: Absolute voltage accuracy: Less than 0.1% @7.0kV 16bit (0.2V LSB) Set ability: Output current:  $500 \,\mu$  A max Ripple noise: Less than 30mVp-p @4.0kV Stability: 20ppm/1hr after 1hour warm up temperature coefficient: 20ppm/°C Electric static lens supply (Referenced to Accelerator) -0.3k~-15kV Output voltage: Absolute voltage accuracy: Less than 0.1% Set ability:

16bit (0.1V LSB) Output current: 180 *µ* A max Less than 100mVp-p 20ppm/1hr after 1hour warm up temperature coefficient: 20ppm/°C

Custom multiple output power supply for "Nano focus soft X-ray tube" with TFE emitter.

## **Application**

- Nano focused soft X-ray CT
- Nano focused soft X-ray 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) 480mm(W) × 450(D) × 249 (H) Externals size: Weight: 33kg

The model "XR303XP" is an integrated multiple output high voltage power supply specifically developed for nano focused X-ray tube with a TFE emitter.

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