Custom multiple output power supply for “Scanning electron microscope with LaB6-gun”.

**Application**
- Scanning electron microscope
- Electron probe micro analyzer
- Auger micro probe analyzer

This is a product only for the custom order that supplies OEM according to customer’s system.

**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
Storage temp range: -5°C~+40°C
Operating temperature
   Limit: +10°C~+40°C
   Humidity: 80% or less
Insulation method: Air insulation (one molding)
Externals size: --- (W) × --- (D) × --- (H)
Weight: --- kg

The model “TL303S” is an integrated multiple output high voltage power supply specifically developed for LaB6-gun type scanning electron microscope.

* Please ask details.
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**Model: TL303S**

This photograph is a production example.

**Product specifications**

**Input voltage**
90V～240VAC single phase 1.5A(50,60HZ)

**Accelerator supply (Referenced to GND)**
- Output voltage: -1K～-30kV
- Absolute voltage accuracy: Less than 0.1%
- Set ability: 12bit (10V LSB)
- Output current: 200μA max
- Ripple noise: 250mVp-p or less
- Stability: 50ppm/1hr after 1hr warm up
  - temperature coefficient: 25ppm/°C

**Filament supply (Referenced to Accelerator)**
- Output voltage: 0~5V
- Set ability: 12bit (1mA LSB)
- Output current: 0~3.3A
- Ripple noise: Less than 10mA @3A
- Absolute current accuracy: ±0.01A
- Stability: 200ppm/1hour @ 3.0A
  - temperature coefficient: 100ppm/°C @3.0A or less

**Bias Supply**
- Output voltage: 3.0kV max
- Method of bias: active bias or self bias

Details decides it by the consultation with the customer.