Model : TW303S

This photograph is a production example.

Custom multiple output power supply for " Scanning electron microscope with thermal electron-gun (tungsten)" .

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.

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:	100ppm/1hr after 1hr warm up
temperature coefficient:	50ppm/℃

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/℃ @3.0A or less

Bias Supply

Output voltage:	3.0kV max
Method of bias:	active bias or self bias

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℃~ +40℃
Operating temperature
Limit: +10℃~ +40℃
Humidity: 80% or less
Insulation method: Air insulation (one molding)
Externals size: --- (W) × --- (D) × --- (H)
Weight: --- kg

- Details decides it by the consultation with the customer.
- Each parameter can be changed according to your demands.
- Please tell it to us if you need a small product.
  We can comply to the request.

The model "TW303S" is an integrated multiple output high voltage power supply specifically developed for thermal electron-gun type scanning electron microscope.

＊ Please ask details.
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