



Precision High Voltage for Ion Beam/Electron Beam Applications



SEM • FIB • TEM • LITHOGRAPHY • SPECTROSCOPY • LENSES • DETECTORS

E-CHUCKS • BEAM BLANKERS • WIEN FILTERS • ION PUMPS



THERMIONIC SEM

EBM20N5/24



- Acceleration, bias and filament sources in a single compact package
- Highly regulated, low noise, ultra-stable accelerator supply programmable from 0 to -20kV at 250µA
- Floating filament and bias supplies referenced to the accelerator
- Differential analog programming inputs to minimize external noise and offset voltages effects





EBM-TEG



- Integrated acceleration, bias, filament, PMT, scintillator and collector sources
- Highly regulated, low noise, ultra-stable accelerator supply programmable from 0 to -30kV at 170µA
- Floating filament and bias supplies referenced to the accelerator
- High voltage outputs to drive the detector, comprising PMT, scintillator and collector grounded outputs
- Differential analog programming inputs to minimize external noise and offset voltages effects





EBM-TEGR



- Integrated acceleration, bias, filament, PMT, scintillator and collector sources in a 19" rack mountable chassis
- Highly regulated, low noise, ultra-stable accelerator supply programmable from 0 to -30kV at 400µA
- Floating filament and bias supplies referenced to the accelerator
- High voltage outputs to drive the detector, comprising PMT, scintillator and collector grounded outputs
- Five interlocks provided
- RS-232 or optional RS-485 digital interface





EBM-FEG



FIELD EMISSION SEM

- Acceleration, filament, extractor and suppressor outputs in a compact solution with extenders to mount in a 19" rack
- The accelerator is a high stability -30kV, 200µA supply
- All outputs are offered with ultra-low output ripple, excellent regulation, stability, temperature coefficient, drift and accuracy specifications
- Optical vacuum interlock
- Optically isolated RS-232 digital interface









- Acceleration, filament, extractor and suppressor sources
- The accelerator is a high stability -60kV, 300µA supply
- All outputs are offered with ultra-low output ripple, excellent regulation, stability, temperature coefficient, drift and accuracy specifications
- Cable and gun interlocks provided
- RS-232 digital interface





FOCUSED ION BEAM AND LENSES

FIB and LGM



- Acceleration, filament, extractor and suppressor outputs in a 19" rack mountable chassis (FIB)
- High stability 35kV, 30µA Accelerator supply
- The Lens Chassis (LGM) offers two ground referenced voltage outputs up to 30kV with fixed or reversible polarity providing the high performance HV lenses required to focus the ion beam
- Optically isolated RS-232, RS-485 or Ethernet digital interface options





HIGH PERFORMANCE MODULES FOR LENSES AND OTHER PRECISION APPLICATIONS

MXE

MPD



- 2.5kV, 5kV and 10kV @ 200µA max
- Reversible Polarity
- Differential, RS-232 and RS-485 control

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- Positive or negative polarity
- Differential, RS-232 and RS-485 control
- Current control mode and wobbler function

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Spellman takes pride in offering custom high voltage solutions to meet or exceed your expectations. Contact Spellman sales for more information.

Global technical support centers provide rapid local response to customer needs



Our globally situated technical support centers are strategically located to provide rapid local response to customer needs. Support Centers are linked through a common ERP system and real-time data reporting so information is always available about your product and delivery status

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