Solutions

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HIGH VOLTAGE POWER SUPPLIES

G603 Series

60 kV High Voltage Power Supply for SEMs, Direct Write Lithography, X-Ray Nanotube Applications

The G603 high voltage power supplies offer very high stability in E-beam applications.

- Max Output Power: Accelerator: 6 W, Extractor: 4 W; Suppressor: 0.02 W, Heater: 15 W; Focus: 0.75 W
- Max Output Voltage: Up to 60 kV (accelerator)
- Ripple: < 2 ppm (75 mVpp) (accelerator);
 Floating Suppressor (-1 kV); Extractor (+10 kV); Filament (3 A) and optional focus (+25 kV)
- Temperature Coefficient: < 25ppm°C (Accelerator)
- Control Interface: Digital

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Overview

Resources





Advanced Energy's G603 series are dependable, flexible, high-stability power supplies that meet the multiple application needs of electron beam applications. With low ripple and high stability, G603 series supplies also feature full digital control and monitoring using fiberisolated 29-bit CAN.

Benefits

Features

- Enable better efficiency, more consistent operation, low variance to component change, greater reliability, and easier testing
- Customize with standard and specialized accessories to simplify installation, configuration, and operation
- Minimize setup and configuration times with easyto-use digital control and monitoring

- Low ripple and high stability for high-resolution systems
- Customer-defined derivatives
 available upon request
- Easy-to-use digital control and monitoring using fiber-isolated 29-bit CAN
- RoHS compliant to EU directive 2011/65/EU

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Model







G603 Series

EG353 >

IP100 >

G603 Series - Advanced-Energy.com

Classification	60 kV E-Beam power supply	35 kV SEM power supply	Vacuum chamber power supply
Maximum Output Voltage	Accelerator: -60 kV, 100 μ A Extractor: +10 kV, 400 μ A Suppressor: -1 kV, 20 μ A Focus: +25 kV, 30 μ A Heater: +5 V, 3 A	Accelerator: -30 kV, 200 μA (-35 kV for conditioning) Extractor: +10 kV, 400 μA Suppressor: -1 kV, 100 μA Heater: +5 V, 3 A	7 kV
Maximum Output Power	Accelerator: 6 W Extractor: 4 W Suppressor: 0.2 W Focus: 0.75 W Heater: 15 W	Accelerator: 6 W Extractor: 4 W Suppressor: 0.1 W Heater: 15 W	115 W
Туре	Single Output (non- reversing)	Single Output (non- reversing)	Single Output
Ripple (Best Performance)	Accelerator: < 2 ppm (75 mVpp) Extractor: < 4 ppm (35 mVpp) Suppressor: < 25 ppm (25 mVpp) Focus: < 4 ppm (100 mV) Heater: LF < 1 mApp, HF < 5 mVpp with a 1 Ω load	Accelerator: < 2 ppm (50 mVpp) Extractor: < 2 ppm (20 mVpp) Suppressor: < 30 ppm (30 mVpp) Heater: LF < 1 mA pp, HF < 5 mVpp with a 1 Ω load	< 4286 ppm (< 30 Vpp)
Volume (Smallest	0.042 m ³ (1.48 ft ³)	0.010 m ³ (0.366 ft ³)	4964 cm ³ (0.175 ft ³)

Model)

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