

Electron Gun Power Supply ISA-7000

Features

The ISA-7000 model, the electron gun power supply, is a high-performance, high-voltage product. The configuration consists of a body, an operating controller, an extension console, remote controller and an electron gun.

Reliable power supply to the electron gun allows you to produce high-quality products.

- * ORIGIN's product, ISA-7000, can be custom-produced upon request.
- * We cannot guarantee the product's performance when used in combination with products from other manufacturers.
- * Some layouts may not be installable, so please inquire before placing an order.
- * It can be used in conjunction with ORIGIN's series of electron guns.
- * Crucible and electron guns are sold separately and can be used together.



Power supply unit



Operation controller



Remote controller

Arc suppressor
* Built-in



Technical Specifications

Power (Energy)	10KW	20KW
Accuracy	5% FS	5% FS
Digital communication	Option	Option
Auto program sweep	Option	Option
Power (3-Phase 220Vac 50Hz/60Hz 10%)	15Kva	25Kva
Output emission current	0 to -1000mA	0 to -2000mA
Output accelerating voltage	-3000 to -10000Vdc	-3000 to -10000Vdc
Output filament current	0 to 30A	0 to 50A
Ripple	4% or Less at maximum	4% or Less at maximum
Beam deflection current	0 to 2.5A	0 to 2.5A
Beam scanning current	60Hz (X axis), 600Hz (Y axis), Output 2Adc	60Hz (X axis), 600Hz (Y axis), Output 2Adc
Operation controller switch	ACC-ON, FIL-ON, ACC/FIL-OFF, INT/EXT	ACC-ON, FIL-ON, ACC/FIL-OFF, INT/EXT
Operation controller (LED)	Above switch, Alarm (4 points), Interlock (5 point)	Above switch, Alarm (4 points), Interlock (5 point)
Operation controller function	Accelerating voltage, Deflection current, Emission current, X-Y position and X-Y scanning	Accelerating voltage, Deflection current, Emission current, X-Y position and X-Y scanning
Operation controller- emission current meter	0 to -100mA, 0 to -600mA, 0 to -1000mA / 3 Ranges	0 to -100mA, 0 to -600mA, 0 to -2000mA / 3 Ranges
Operation controller- external signal input	14 point	14 point
Operation controller- external signal output	9 point	9 point
Operation controller dimensions (Unit: mm)	483 (W) X 350 (D) X 150 (H)	483 (W) X 350 (D) X 150 (H)
Power supply main dimensions (Unit: mm)	580 (W) X 860 (D) X 1415 (H)	580 (W) X 860 (D) X 1700 (H)
Ground	Lees than ground resistantce 10 ohm	Lees than ground resistantce 10 ohm
Vibration in the workspace	Approximately X,Y,Z < 0.2G Less than	Approximately X,Y,Z < 0.2G Less than
Operating temperature & Humidity	17 to 25°C, 20 to 70% RH	17 to 25°C, 20 to 70% RH
Weight	Approximately 380Kg	Approximately 470Kg

