

Electron Beam Evaporator Controller



MAIN FEATURES

Based on ARM embedded platform + Linux OS

- Highly integrated design
- Remote control and diagnosis
- 7" touch screen LCD
- Easy firmware upgrade
- Real-time flux display
- Communication Interface: USB/Ethernet
- Multifunction: can work as HV power supply
- High efficiency air cooling, intelligent cooling fan control

Multiple work modes

- Manual mode
- Constant high voltage
- Constant emission current
- Constant power
- Constant flux
- External control mode

Special design flux converter

- Directly attached to the evaporator to minimize noise and error
- Integrated amplifier and digitalizer
- Ultra-wide current detection range: 100pA~1mA, auto selection
- Ultra-low noise: $<1\text{pA}/\sqrt{\text{Hz}}$



Front Panel

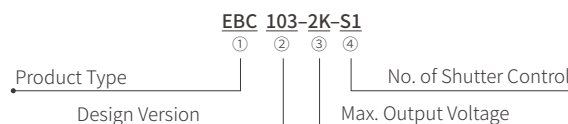


Rear Panel

TECHNICAL DATA

Filament Current	0~7A (10mA step)	
Flux Input Range	100pA~1mA	
High Voltage Source	Voltage: 0~2000V (1V step)	
	Current: 0~125mA (1mA step)	
	Power: 250W (Max)	
Control System	ARM with Linux	
	CPU frequency: 533M	
	DDR memory: 256M	
	Flash storage: 2G	
Constant Flux Mode	Target flux	Accuracy
	1nA	0.1nA
	10nA	0.3nA
	100nA	1nA
Dimensions	483 × 133 × 370mm (3U, 19"RACK)	
Weight	8kg	

Part Number Composition



④ Available options

S0: No Shutter Control, S1: One Shutter Control



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