EB Power Supply [HPS Series]

The HPS series power supplies for electron beam evaporation provides 5/10 and 16kW of power and is designed for stable evaporation.

Due to use of solid-state components the unit is small, lightweight and very reliable.





EGC-10S

Features

- > Compact and Lightweight due to Solid-state Design
- > Forced Air Cooling Eliminates the Need for Water Cooling
- > To Minimize Deposition Rate Fluctuations the Unit Utilizes a Constant Current Design Feature
- > Constant Feedback Control Provides a Stable Power Source
- > Noise is Eliminated by Constant Monitoring of the Power Circuits
- > Power Supplies are Designed for the Most Efficient Use of Power

Applications

- Vaccum evaporation
- Ion plating

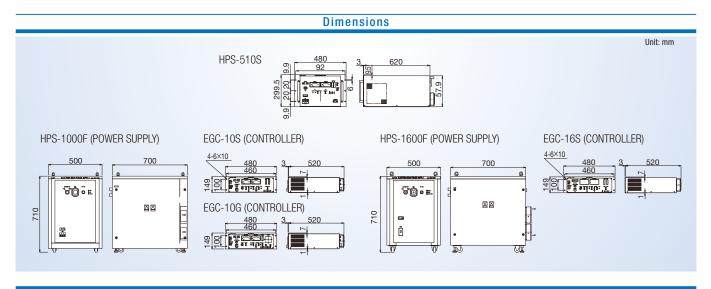




EB Power Supply [HPS Series]

		Specificat	ions	
Model		HPS-510S	HPS-1000F	HPS-1600F
0 0 1	Voltage	-4 to -10kV		
	Ripple rate	2%p-p or less (at rated power)		
	Stability	1%p-p or less (at rated power)		
	Current	0 to 500mA	0 to 1000mA	0 to 1600mA
protection	High voltage shut off time	· · · ·	1 ms or less	
	Reset time	20ms 10ms		
	High voltage startup time	2ms (rated 10 to 90%)		
nsulation resistance input	Input	5MΩ or more (at 500V)		
	Input side	AC1500V / 1 minuts		
	Output side	DC1250V / 1 minuts		
	Temperature	10 to 40°C (50 to 104°F)		
	Humidity	30 to 70% (not condensing)		
Cooling method		Forced air cooling		
Input	Voltage	AC190 to 231V 3 <i>φ</i>		
	Frequency	50 / 60Hz		
	Power	7kVA or less	14kVA or less	21kVA or less
	Leak current	10mA or less	5mA or less	
	Current	-0.8 to -3.5ADC	-0.4 to -3.5 ADC (S type) ± 1.5 ADC (G type)	-0.4 to -3.5ADC (Normal type) -1.8 to -16ADC (High power type)
	Sweep frequency	5Hz	5Hz (S type) 60Hz (G type)	5Hz
	Sweep waveform	Triangular wave	Deformation Triangular wave	
	Current	±1.2A *	\pm 1.2A (S type) \pm 1.5A (G type)	\pm 1.2A (Normal type) \pm 2A (High power type)
	Sweep frequency	22Hz *	22Hz (S type) 500Hz (G type)	22Hz
	Sweep waveform	Triangular wave *	Triangular wave	
Deflection magnet output	Current	—	0.2 to 2A (G type)	_
Externally controllable functions		High voltage ON/OFF, Emission control	High voltage ON/OFF, High voltage,	Magnet current, Emission control
Dimensions W×D×H		480mm×620mm×300mm	500mm×700mm×710mm (Power supply) 480mm×480mm×149mm (Controller)	
Weight		50kg	115kg (Power supply) 20kg (Controller)	115kg (Power supply) 20kg (Normal controller) 17kg (High power controller)
Option		• Y-Axis magnet power supply (YPS-005) • Cable length change	 2 source expantion unit Beam sweep controller (PSG-004S / PSG-004G) 	

* As for HPS-510S,Y-Axis magnet power supply is an option.



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