

Pulsed Bias Voltage Power Supply



Features

- With a wide range of available technology due to the advanced high frequency inverter and IGBT power module, pulsed bias voltage power supply can effectively improve the film quality, lower temperature, increase adhesion, improve the deposition rate and the strength the homogeneity of film.
- Having the advantages of high efficiency, stable operation, small interference to the power grid, etc.
- The PHP arc suppression technology makes sure that users can control the quality of the film more convenient in the process of surface treatment. With the functions of voltage stabilization and ideal coup de foue, the power supply can effectively inhibit the arcing on the workpiece surface, and significantly improve the production yield, surface fineness and film adhesion of the plating pieces.
- DC / pulse voltage, pulse width and pulse frequency can all be easily adjusted on the panel.
- Power efficiency $\geq 90\%$
- The power supply can communicate with the host computer through the digital ports such as RS232, RS485, WIFI and so on, which expands its control function.
- Using the touch screen microcontroller, the power supply is highly integrated and powerful with easy operation. The display of current and voltage is very clear and intuitive.
- With small size, light weight, high efficiency, fast response and good accuracy.

Specification

Product Model	DB30A10H(Bipolar)	BP30A10H(Unipolar)
Input Power & Frequency (V/Hz) Three Phase and Four Wire	AC380+N	AC380+N
	60Hz	60Hz
Output Current Range (A)	0~30	0~30
Accuracy For Constant Voltage and Constant Current	≤1%	≤1%
Rated Output Voltage (DCV)	0~100/-800~0	0~800
Max Output Power (KW)	30	30
Duty Cycle (%)	10~80	10~80
Weight (KG)	60	
External Dimensions (MM)	575(D)×480(W)×250(H)	
Insulation Grade	B	
Productivity (%)	90	
Enclosure Protection Class	Ip21	
Cooling Mode	Water-Cooling	
External Interface	This Series Products all Adopt The Touch Screen Microcontroller	

Application

Pulse bias power supply is mainly used in multi arc ion plating, magnetic filtered arc ion plating, DC magnetron sputtering coating and other fields. The main functions of it included: glow discharge cleaning on the work-piece surface, ion bombardment before coating, ion acceleration during coating, etc.