

Bipolar Pulse Bias Power Supply

Product Code: Bipolar Pulse Bias Power Supply ZY/BIAS(G3) Series

Weight: 60.00kg

Dimensions: 644.00cm x 480.00cm x 178.00cm



Short Description

This unit is used for tool coating, multi-arc and magnetron and plasma enhanced and chemical vapor deposition. It is mainly used for glow cleaning of the surface of the plated workpiece, ion bombardment before coating and ion acceleration during deposition, to increase the compactness and adhesion of the film.

Description

1: Its main loop topology adopts PFC+full-bridge architecture combined with ARM+DSP digital control technology

3: It has built-in arc extinguishing time setting of 10?s-100?s to adapt to different processes and products, and displays Arc count

4: It can detect V-ARC & I-ARC at the same time, quickly cut off the output and start the built-in patented technology to eliminate residual arc energy, avoid substrate discharge arcing, and ensure high-precision film layer to improve the yield of plated parts. Surface finish and film bonding force

5: It can reasonably adjust the duty cycle (10-90%), can improve and control the film forming speed and temperature, increase the film layer and improve the deposition rate
6: Its output voltage is 0-1000V without shifting, glow cleaning and coating deposition

Items	ZY/BIAS(G3)-4020	Arc energy	<0.5mJ/kW
-------	------------------	------------	-----------

Input voltage	380-400Vac + PE	?ARC)	PLC control mode	Local/remote (analog?RS485?RS232?)
Input frequency	50-60HZ	Analog interface	DB-25PIN	0-10V DC
Power	18KW	RS485Communication Interface	DB-9	Modbus Pin 1A 2B 5GND
Work Mode	Constant voltage (V)	DP Communication Interface	DB-9	ProfiBus Pin 3A 8B 5GND?Optional?
Output current Max:	500V/30A	Efficiency	>90%, Rated output is the premise	
Output voltage Max:	0-1000V/15A	Size[mm]	4U 19inches 178HX480WX644D	
Output frequency:	40-80KHZ	Cooling way	Water cooling + auxiliary air cooling, front in and back out	
Duty Cycle	10-90%	Cooling water pipe size	?16mm?OD?×?12mm?ID?	
Reverse voltage	0-50V adjustable	Inlet pressure	0.15 to 0.3 Mpa	
Reverse pulse width	1-10?S	Inlet water temperature	+25 to +35 ?	
Output precision	<±1%, Set value comparison	Influent flow	l/min >10	

Specification

Technical parameters	
Arc energy ?ARC)	0.5mJ/kW
DP communication interface	DB-9 ProfiBus Pin 3A 8B 5GND(optional)
Duty cycle	10-90%
Input Voltage & Frequency	380-400Vac 3P +PE 50-60HZ
Output current	500V/30A
Output Power	18KW
Output voltage	0-1000V/15A
PLC control mode	Local/Remote (Analog, RS485, DP)
RS485 communication interface	DB-9 Modbus Pin 1A 2B 5GND
Working frequency	40-80KHZ