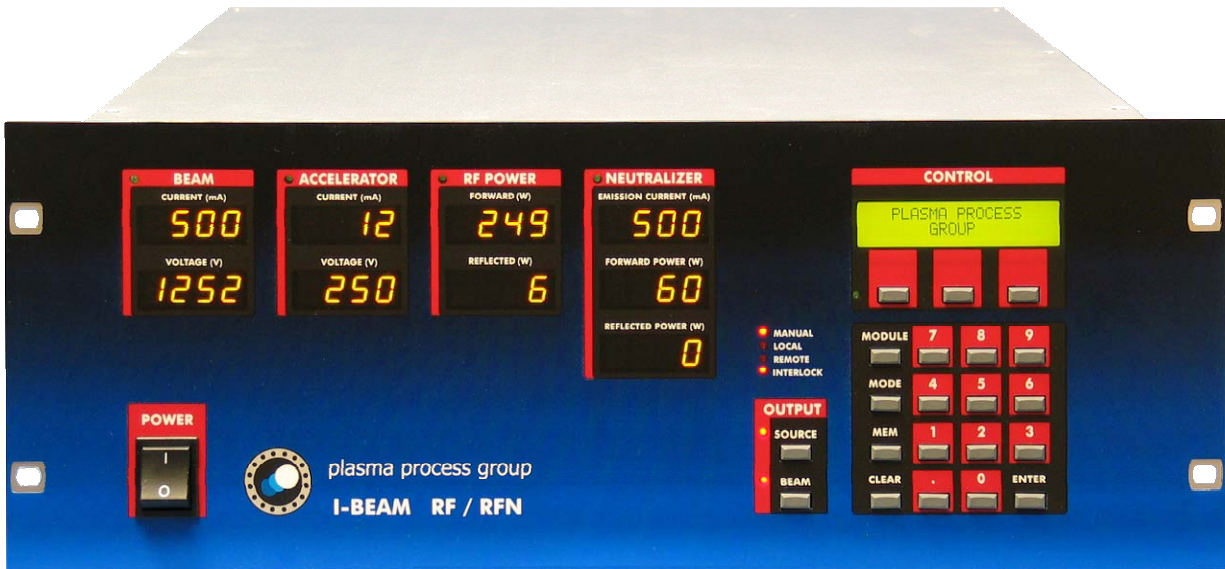




I-BEAM™ 701 RF/RFN Ion Source Power Supply (RF Discharge / RF Neutralizer)



- All ion source parameters displayed continuously on large bright LEDs
 - Enables monitoring of ion source and process performance
- Flexible control modes - manual, automatic (local), and remote
 - Gives you full control over your process
- Highest quality and state of the art electronics for durability, dependability and long life
 - RoHS compliant
- Separate display and keypad for programming
 - Simplifies set up and operation

Description

The I-BEAM™ RF/RFN Power Supply provides power and control for ion beam sources with radio frequency (RF) discharges and RF neutralizers. The I-BEAM™ RF/RFN can run sources from other manufacturers, and is designed specifically to optimize performance of Plasma Process Group's RF ion beam sources.

For production applications, the I-BEAM™ RF/RFN is designed for reliability and ease of use. Control modes allow operation either from the front panel, or remotely through the RS-232 interface. In remote control mode, operating parameters are set via the interface. In local control mode, the power supply adjusts parameters automatically, based on preset values, minimizing operator intervention or error. Up to 9 sets of operating parameters can be stored in the I-BEAM™ RF/RFN.

The I-BEAM™ RF/RFN is also well suited for research & development applications. A separate display and keypad make setup and operation quick and easy. All ion source operating parameters are displayed continuously on individual large LED displays. Manual control mode gives the operator full control of all parameters, to respond to those unexpected circumstances typical of research.

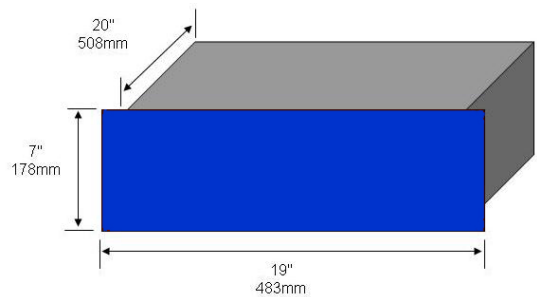
Whether you're in a research or production environment, Plasma Process Group is committed to providing you with the best support possible. Help is never more than a phone call away (or email if you prefer). Our people have many years of experience with ion beam sources, systems, and applications, and we're happy to share that with you. Give us a call.

Specifications

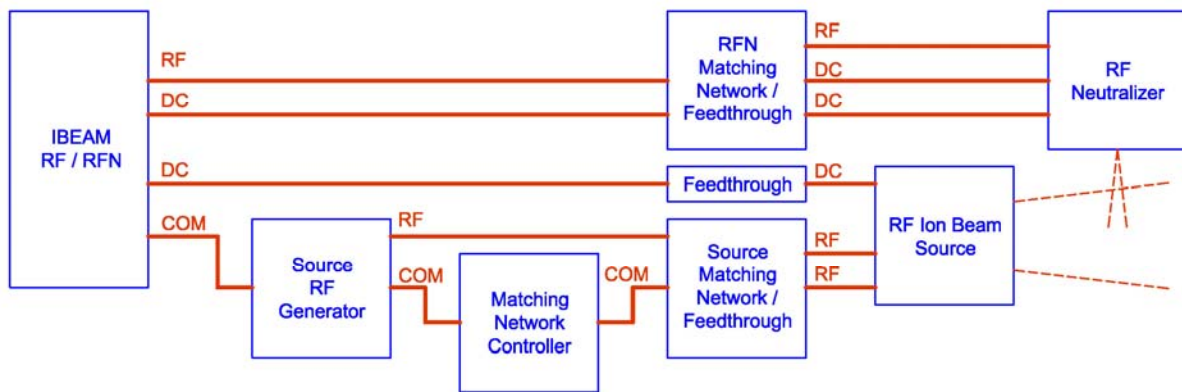
Power Outputs	Five individual supplies to drive a RF discharge and RF neutralizer source
Beam supply	1500 VDC, 600 mA
Accelerator supply	1000 VDC, 50 mA
RF power monitoring	RF discharge generator sold separately.
RF generator for RFN	100 W
Keeper for RFN	60 V, 300 mA
RFN Emission	120 V, 1000 mA
Output Connections	
Source	4 pin industry standard: 97-3102A-18-4S Mil Spec
Neutralizer	5 pin industry standard: 97-3102A-14S-5S Mil Spec
Interface	
Communications	RS-232, DB 9 female
Interlock	DB 9 female
Remote switching	DB 9 female
Power Input	208 VAC, 50/60 Hz, 16 A, 1 phase

Chassis

Mounting	19" rack mount, 4U height
Size	19" x 7" x 20"
(Width x Height x Depth)	483 mm x 178 mm x 508 mm
Weight	32 lbs (14.5 Kg)



RF Ion Beam System Block Diagram



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