



I-BEAM™ 601 FC/FN Ion Source Power Supply (Filament Cathode / Filament 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™ FC/FN Power Supply provides power and control for ion beam sources with filament cathodes and filament neutralizers. Designed specifically to optimize performance of Plasma Process Group's 3cm and 8cm ion beam sources, the I-BEAM™ FC/FN can run sources from other manufacturers as well.

For production applications, the I-BEAM™ FC/FN is designed for reliability and ease of use. Control modes allow operation 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™ FC/FN.

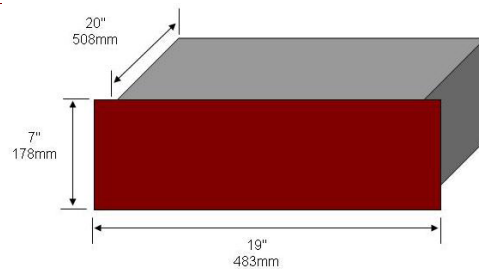
The I-BEAM™ FC/FN is also well suited for research & development applications. A separate display and keypad make setup and operation quick and easy. All ion source operating parameters are displayed continuously on individual large LED displays. Manual control mode gives the operator full control of all parameters, allowing easy response 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 filament cathode and neutralizer source
beam supply	1500 VDC, 500 mA
accelerator supply	1000 VDC, 50 mA
discharge supply	80 VDC, 6 A
cathode supply	20 A, 700 W
neutralizer supply	20 A, 700 W
Output Connections	
source	97-3102A-24-27S, Mil Spec Mil-C-5015, 7 pin
neutralizer	97-3102A-14S-2S, Mil Spec Mil-C-5015, 4 pin
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	27 lbs (12 Kg)



rear panel view



Ordering Information

IBEAM 601	I-BEAM™ 601 FC/FN Power Supply (order cables & sources separately)
504682	Cable, source and neutralizer, 7 wire, 12' (3.7 m), I-BEAM™ 601 to HV connectors
504683	Cable, source and neutralizer, 7 wire, 12' (3.7 m), I-BEAM™ 601 to Lug connectors
504684	Cable, source and neutralizer, custom cables & adaptors available on request



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