



# plasma process group

## I-BEAM™ 601 FC/FN Ion Beam Source Power Supply (Filament Cathode / Filament Neutralizer)



- **All ion source parameters displayed continuously on large, bright LEDs**
  - **Enables visual monitoring of ion source and process performance**
- **Flexible control modes - manual, automatic (local), and remote**
  - **Gives full control over the process by either computer or operator**
- **Highest quality and state of the art electronics for durability, dependability and long life**
- **RoHS compliant**
- **Separate display and keypad for programming, simplifying setup and operation**

### **Description**

The I-BEAM™ 601 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, 8cm and 13cm ion beam sources, the I-BEAM™ FC/FN can run DC 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 for recall 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.*

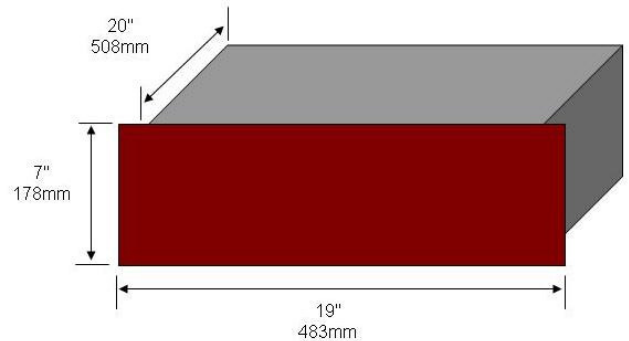
## Specifications

<b>Power Outputs</b>	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
<b>Output Connections</b>	
source	97-3102A-24-27S, Mil Spec Mil-C-5015, 7 pin
neutralizer	97-3102A-14S-2S, Mil Spec Mil-C-5015, 4 pin

<b>Interface</b>	
communications	RS-232, DB 9 female
Interlock / remote switching	DB 9 female

<b>Power Input</b>	208 VAC, 50/60 Hz, 16 A, 1 phase
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<b>Chassis</b>	
mounting	19" rack mount, 4U height
size (width x height x depth)	19" x 7" x 20"
	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 & ion beam sources separately)
504682	7-wire Cable, source and neutralizer, 12' (3.7 m), I-BEAM™ 601 to HV connectors
504683	7-wire Cable, source and neutralizer, 12' (3.7 m), I-BEAM™ 601 to Lug connectors
504684	4-wire Cable, DC neutralizer, Filament or PBN, 12' (3.7 m), I-BEAM to HV connectors
	Custom cables and adaptors available on request



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