

## FF Range of FLOATING FILAMENT MODULES OUTPUT 7.5V at 5A ISOLATION TO 30kV

### Applications (now up to 30 kV)

Mass Spectrometers

Electron Guns

Electron Gun Evaporators

X-Ray Tube Filaments

Power input & control at ground potential



These power supplies use the proven power oscillator from the standard 100 watt HW series and are intended to power ion gun, electron gun & X-ray filaments of up to 1.5 ohm (including cable resistance).

The filaments can be isolated from ground by up to 30 kV, while power input & all controls remain at ground potential.

Higher isolation voltages are also possible.

Please consult the factory for more details.

### Electrical Specification

Input voltage:	24V d.c. $\pm 0.5V$ at 3A maximum.
Output current:	0.8A to 5A at up to +7.5 volt d.c.
Control:	0 to +10V gives 0 to 5A, or by internal or external potentiometer.
Ripple:	Less than 200 mV peak to peak, ripple frequency 50 kHz.
Line regulation:	Less than 1% for 0.5V change in 24V.
Load regulation:	Less than 1% for 10% change in filament resistance. The output impedance of the power supply is electronically controlled to maintain the filament temperature as the filament ages.
Temperature co-efficient:	0.1% per °C.
Current monitor (pin 3):	0 to 10V represents 0 to 5A (accuracy $\pm 5\%$ , source resistance 10 kohm).
Inhibit (pin 8):	Low = on, high or O/C = off.
Operating temperature:	0 °C to +45 °C.

### Mechanical Specification

Size:	230 x 120 x 60 mm (5kV, 15kV, & 30kV isolation).
Output cables:	Length 1 metre approx.
Pin connections:	As standard HP series with current monitor on pin 3 and on/off on pin 8.

#### Order Code:

Series Code	o/p Isolation	Dc	Options Code	K no
Series Code = FF	005 = 5kV	D = Dc	AA	060
	015 = 15kV			079
	030 = 30kV			104

e.g. old K1/79 ? 15kV isolated supply = FF015DAA079

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