

APPLIED KILOVOLTS

REF/ KP30

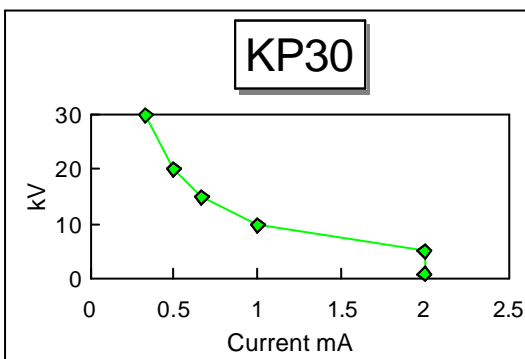
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KP30P HIGH VOLTAGE (30 kV) CONSTANT POWER MODULES OUTPUT 30 kV to 5 kV at 10 watts

Applications

X-Ray Tubes

XRF



This power supply is intended for X-ray applications where a constant output power is required over a wide voltage range (e.g. X-Ray Fluorescence). It uses a modified version of the high frequency power oscillator from the standard HP series and can deliver a constant 10 watts over the range 5 kV at 2 mA to 30 kV at 0.33 mA. Please consult the factory for more details.

Electrical Specification

Input voltage:	24V d.c. $\pm 0.5V$ at 1.2A maximum.
Output Current:	Maximum 2 mA, depends on output voltage (see graph above).
Control:	0 to +10V gives 0 to 30 kV or internal or external potentiometer.
Ripple:	Varies with output current, 40V peak to peak (50 kHz) at 1 mA.
Load regulation:	Less than 30V for load changes from 10% to maximum.
Line regulation:	Less than 30V for 1V change in 24V input.
Temperature co-efficient:	300ppm per $^{\circ}C$.
Voltage monitor (Pin 3):	0 to 10V represents 0 to 30 kV (accuracy $\pm 5\%$, source resistance 10 kohm.)
Inhibit (pin 8):	Low ($< 1.5V$) = on, high or O/C = off.
Operating temperature:	0 $^{\circ}C$ to +45 $^{\circ}C$.

Mechanical Specification

Size:	148 x 98 x 47 mm.
Output cable:	Type TV30, length 1 metre approx.
Pin connections:	As standard HP series with voltage monitor on pin 3 and on/off on pin 8.

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