



# AHV

High Voltage Power Supplies

## CRT-3 Series

### Triple Output High Voltage CRT Power Supply

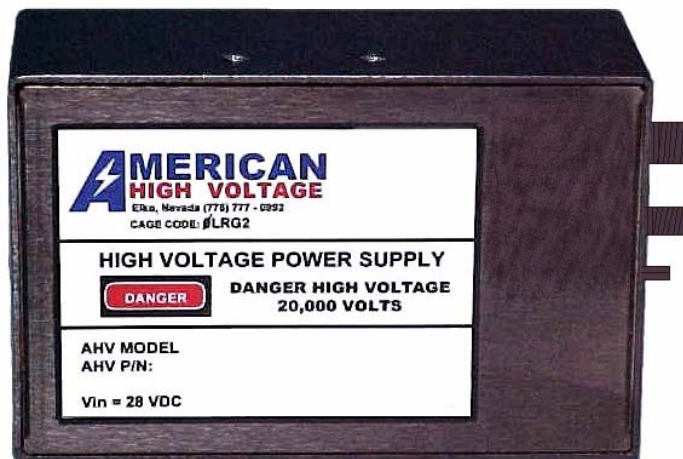
#### Description

The American High Voltage CRT-3 Series power supply is the standardized derivative of a custom design developed for the F-16 Multifunction Display.

This high reliability design is a cost effective solution for military avionics displays.

#### Features

- Remote Adjustment and Shutdown
- Adjustable Outputs
- Arc, Short Circuit and Overvoltage Protection
- Dynamic Focus
- Ruggedized Modular Design
- EMI Suppression



American High Voltage

2002 Idaho Street, Elko, NV 89801, USA

Phone- (775) 777-0992 Fax- (775) 777-3631

Email- [ahv@ahv.com](mailto:ahv@ahv.com) Web- [www.ahv.com](http://www.ahv.com)

## Triple Output High Voltage CRT Power Supply

### Electrical Characteristics

<b>Input</b>	
Voltage	22 to 32 VDC
Current	1.1A
Positive Transient	50 VDC
<b>Anode Output</b>	
Voltage (Adjustable)	15 to 25 KVDC
Current (Avg)	750uA
Current (Pk)	1.5mA
Ripple	12 V p-p
Line Regulation	0.05% max
Static Load Regulation	0.05% max
Dynamic	<100 V pk max
Temperature Coefficient	+/- 50 ppm/Deg. C
<b>Focus Output</b>	
Voltage (Adjustable)	3.1 to 5.3 kV dc
Current (Avg)	400uA
Current (Pk)	600uA
Ripple	2.5 V p-p
Line Regulation	0.01% max
Static Load Regulation	0.05% max
Dynamic Load Regulation	10 V pk max
Temperature Coefficient	+/- 50 ppm/Deg. C
Dynamic Focus	0 to 250 V @ 25v/us

<b>G2 Output</b>	
Voltage (Adjustable)	250 to 650 VDC
Current	-1- to +50uA
Ripple	0.5 V p-p max
Line Regulation	0.1% max
Static Load Regulation	0.1% max
Temperature Coefficient	+/- 50 ppm/Deg. C
<b>Features</b>	
HVPS On/Off	
BIT	TTL High or Open =HVPS Fail
Test Points	
Reference	10 VDC
Protection	Overvoltage
	Short Circuit
	Arc
	Output Over-current

