

High Voltage Power Solutions

Commercial High Voltage Power Supply

SLC SERIES

High Voltage Power Supply

- ◆ 2kV to 25kV anode voltage
- ◆ Up to 10 watts total output power
- ◆ Two auxiliary outputs
- ◆ Customer-specified output and input voltages
- ◆ Beam sense output (optional)
- ◆ Overvoltage safety circuitry
- ◆ Reverse voltage protection
- ◆ Designed for high-volume production
- ◆ Safety agency recognized models
- ◆ Highly reliable – MTBF > 350,000 hours



Rantec's SLC Series is a sophisticated, lightweight, compact high voltage power supply ideally suited for use in high-resolution monochrome CRT displays.

This high-performance power supply provides a tightly regulated adjustable anode output specified between 2kV and 25kV, as well as two fixed auxiliary voltages up to 1.4kV. Total output power generated is up to 10 watts. The enclosure is extremely compact, with total unit weight under one pound. Product parameters can be tailored to meet custom specifications.

Overvoltage safety circuitry is incorporated into the SLC Series, in full compliance with safety guidelines established for x-radiation by the Department of Health and Human Services (DHHS). Power supply design is in accordance with UL, CSA and IEC safety agency requirements. Highly reliable, the calculated MTBF (@55°C) exceeds 350,000 hours.

**Rantec Power Teaming
Engineers Offer Technical
Assistance to:**

Evaluate Power System Requirements
Develop Power System Architecture
Reduce Time to Market



Rantec Power Systems Inc.

SLC SERIES

High Voltage Power Supply

ELECTRICAL

INPUT

Voltage	+24V \pm 5%
Current	1A, maximum @ full anode current

OUTPUT

ANODE

Voltage	specified between 2kV to 25kV, nominal
Adjustable Range	\pm 5%
Load Current Range	up to 10W, including auxiliary outputs
Ripple	3V p-p max. ($C_L=1600\mu\text{F}$)

AUX 1

Voltage	Specified up to 1400V
Tolerance	\pm 10%
Load Current Range	1mA
Ripple	3V p-p, typical

AUX 2

Voltage	specified up to 1000V
Tolerance	\pm 10%
Load Current Range	1mA
Ripple	2V p-p, typical

REGULATION

ANODE

Line	0.3%
Load	0.1%
Dynamic Load	30V / 100 μ A
Temp-Coefficient	250ppm/ $^{\circ}$ C
Interaction - AUX 1	\pm 10%
Interaction - AUX 2	\pm 5%

MECHANICAL

High Voltage Connector	J1-21 Connector
Low Voltage Connector	6-pin straight Molex; p/n 26-48-1065
Weight	< 1lb.

ENVIRONMENTAL

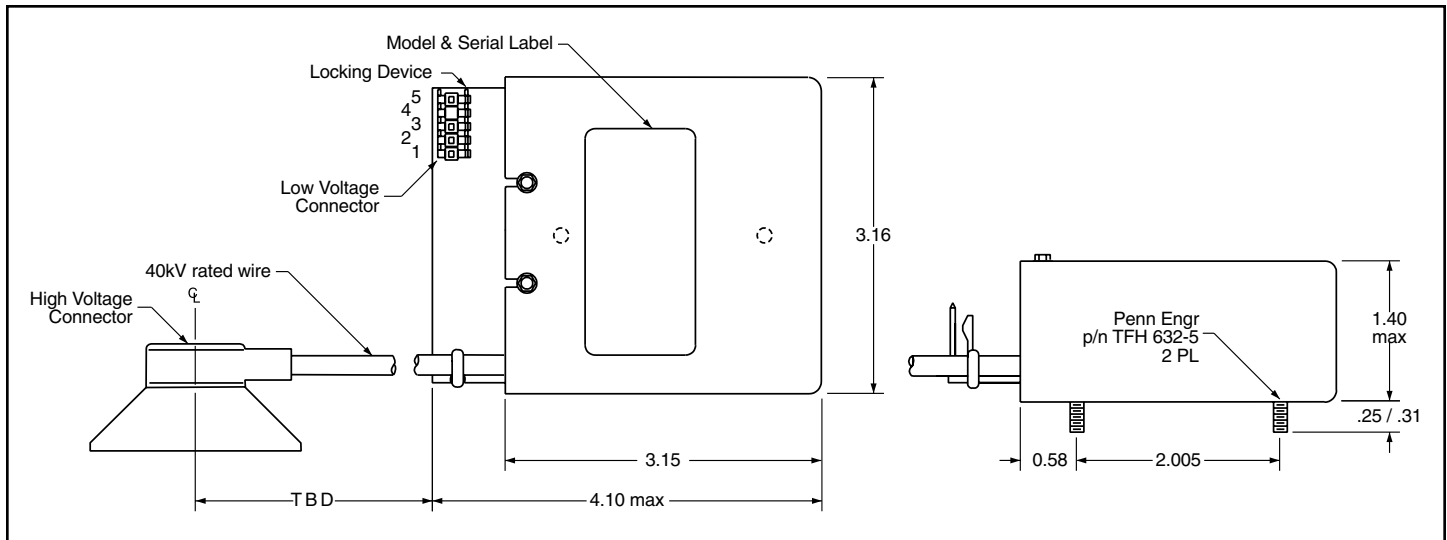
Operating Temperature (case)	0 $^{\circ}$ C to +65 $^{\circ}$ C
Storage Temperature (ambient)	-35 $^{\circ}$ C to +70 $^{\circ}$ C
Operating Altitude Range	0 to 10,000 ft.

FEATURES

Beam sense output (optional)
Overvoltage protection
Reverse voltage protection
Short circuit protection
Arc protection
Many UL recognized models
Designed in accordance with UL1950, CSA 950, VDE (0806108.81), IEC (380 2nd ed)

LV CONNECTOR PINOUT

PIN OUT	FUNCTION	PIN OUT	FUNCTION
1	AUX 1	4	No Pin
2	No Pin	5	V+
3	AUX 2	6	Ground



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