

High Voltage Power Solutions

Ruggedized High Voltage Power Supply

SMI-18-03

Ruggedized High Voltage Power Supply

- ◆ 18kV @ 1.2mA peak, multiple outputs
- ◆ Tightly regulated, low ripple
- ◆ Remote on/off
- ◆ Extremely compact enclosure
- ◆ Lightweight
- ◆ Ideal for commercial avionics cockpit displays



Model SMI-18-03 high voltage power supply is designed to power high-resolution color shadow mask cathode ray tubes used in general aviation pilot display systems.

The SMI provides regulated, low-ripple anode, focus and grid DC voltages from a low-voltage DC source. Anode, focus and grid-2 potentials can be adjusted by externally-accessible potentiometers. The fixed grid-1 potential is suitable for cutoff biasing of a CRT. The SMI-18-03 also provides a TTL-compatible remote shutdown input.

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

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



Rantec Power Systems Inc.

SMI-18-03

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ELECTRICAL

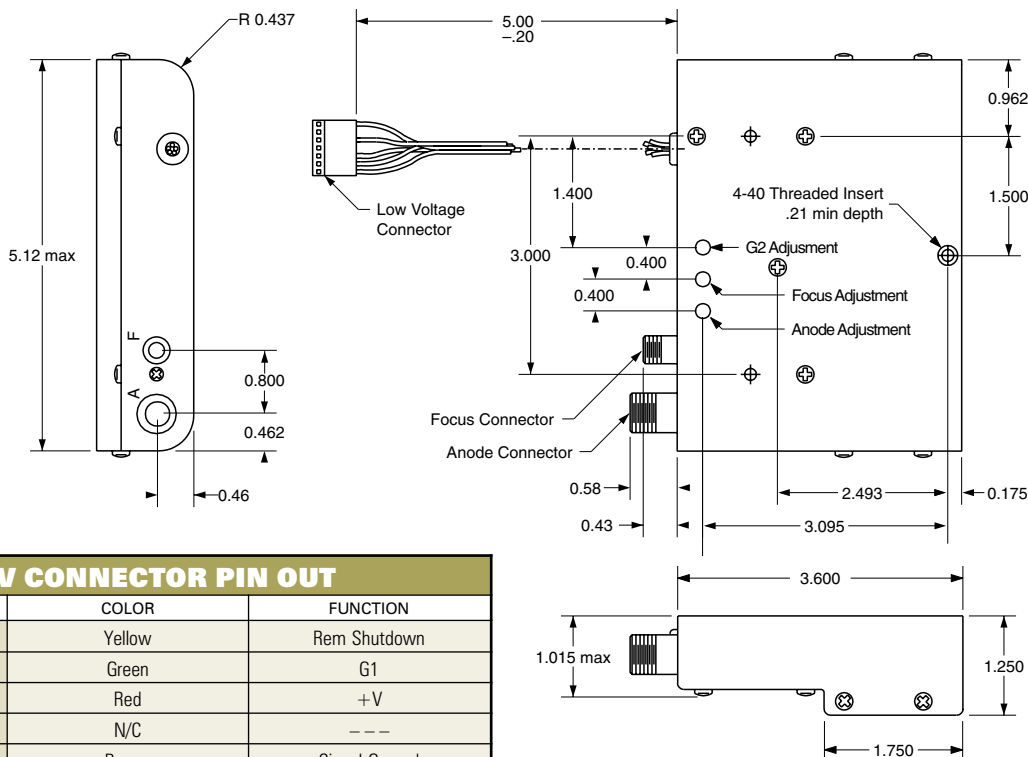
DESIGNATION	VOLTAGE	CURRENT
Input	+15V \pm 1.0V	2.0A maximum
Anode	+18kV nominal	0.45 mA average load 1.2 mA peak load
Focus	+3.8kV to +5.4kV adjustable	-15 μ A to +15 μ A full load
Grid 2	+180V to +510V adjustable	-5 μ A to +5 μ A full load
Grid 1	-130V nominal	0 to 800 μ A full load

MECHANICAL

Anode Connector	20kV, LGH 1 I Type
Focus Connector	10kV, LGH 1/2 I Type
Low Voltage Connector	Berg Electronics 7-pin Connector #65039-030
Weight	

ENVIRONMENTAL

Operating Temperature (Case)	-15° C to +70° C
Storage Temperature	-55° C to +85° C
Altitude	-15,000 to +55,000 feet



LV CONNECTOR PIN OUT

PIN	COLOR	FUNCTION
1	Yellow	Rem Shutdown
2	Green	G1
3	Red	+V
4	N/C	---
5	Brown	Signal Ground
6	N/C	---
7	Blue	G2

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DSHV SMI1803 REV-B 010906

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