FLASHLAMP SIMMER SUPPLY

- **150 mA Simmer Current**
- **1125 V Open Circuit Voltage**
- **Automatic Boost to Maintain Arc**
- **Up to 28 W Output**
- **SCR Drive for Trigger Transformer**
- **Directive 2011/65/EU (RoHS II) Compliant**

DESCRIPTION:

The ***Model 867A*** simmer supply is designed to strike and maintain a low-level current discharge in flashlamps. Initially, the simmer output open circuit voltage rises to a stabilized 1125 V. The simmer trigger output provides an SCR discharge of 350 V at 20 mJ to drive a trigger transformer. When the lamp is struck, the trigger pulses are inhibited and the supply provides a constant current to the flashlamp. Immediately after PFN discharge, the current is boosted automatically to maintain the arc. An external ballast is not normally required. For high pressure, long-arc lamps or dual lamps, *Model 864A* is recommended.

SPECIFICATIONS:

Input	
Voltage	+24VDC to +30VDC at 1A typical
Simmer Output	
Voltage	Up to 250 V (depending on flashlamp.) Flashlamps should be processed for simmer operation.
Open Circuit	1125 V, ± 75 V
Current	150 mA
Boost	Up to 400 mA for 2 ms
Current	For >30 Hz laser PRF, boost must be disabled (add -D to part number.)
Enable	+3.0 to +32 V enables simmer, 18 k impedance May be tied to DC input power
Efficiency	75% typical including internal ballast

Simmer Trigger	
Voltage	-350 V at 20 mJ
Pulsewidth	≥ 1 µs
Repetition Rate	Automatic restrike at ≈ 25 Hz, if flashlamp is not lit.
Temperature	0° to 70°C
Connections	
Input/Output/ Power	Molex, 19-09-1099
Mating	Molex, 19-09-2098
Size	5.25" x 2.40" x 1.30"

RoHS

Specifications subject to change without notice.

APPLICATIONS:

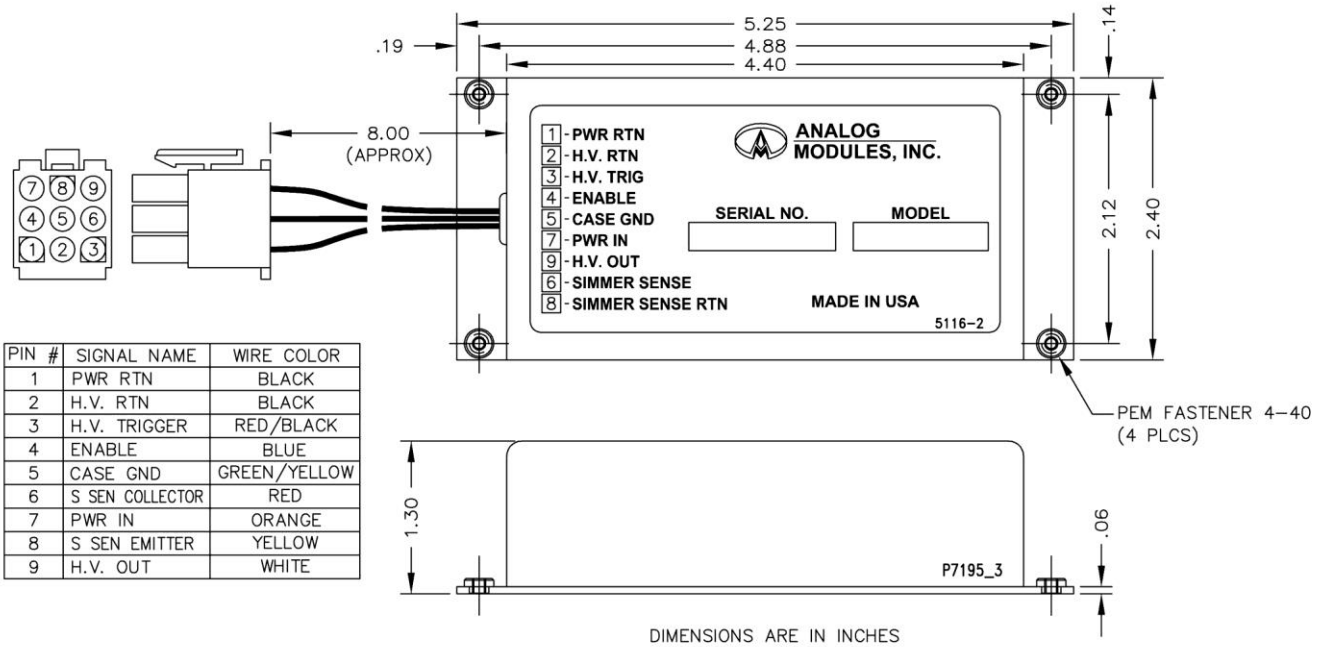
Full Simmer Supply with SCR Trigger Drive for Flashlamps

126 BAYWOOD AVENUE ♦ LONGWOOD, FLORIDA 32750-3426 ♦ USA
(407) 339-4355 ♦ FAX (407) 834-3806 ♦ E-mail: ami@analogmodules.com
www.analogmodules.com

		MODEL NUMBER
		OUTPUT CURRENT
		150 mA
INPUT VOLTAGE	+24 VDC TO +30 VDC	**867A**

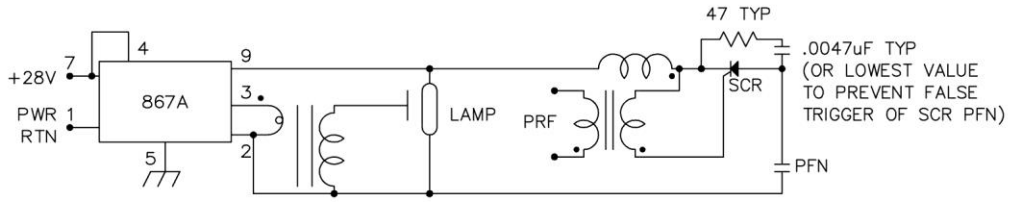
Typical Part Number: ***867A-D =***

Input Voltage: +24 to 30 VDC
Output Current: 150 mA
Automatic Boost: Disabled for >30 Hz laser PRF applications



PIN #	SIGNAL NAME	WIRE COLOR
1	PWR RTN	BLACK
2	H.V. RTN	BLACK
3	H.V. TRIGGER	RED/BLACK
4	ENABLE	BLUE
5	CASE GND	GREEN/YELLOW
6	S SEN COLLECTOR	RED
7	PWR IN	ORANGE
8	S SEN EMITTER	YELLOW
9	H.V. OUT	WHITE

DIMENSIONS ARE IN INCHES



TYPICAL EXTERNAL TRIGGER CIRCUIT

NOTE: BECAUSE OF THE WIDE VARIATIONS IN FLASHLAMPS, ANALOG MODULES, INC. CANNOT GUARANTEE SIMMER OPERATIONS WITH ALL LAMPS.