



FLASHLAMP SIMMER SUPPLY

- ADJUSTABLE CURRENT TO 500mA
- ADJUSTABLE OPEN CIRCUIT VOLTAGE TO 1500V
- AUTOMATIC BOOST TO MAINTAIN ARC
- UP TO 60W OUTPUT
- SCR DRIVE FOR TRIGGER TRANSFORMER



DESCRIPTION:

The **Model 864** 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 1500V. The simmer trigger output provides an SCR discharge of 520V at 63mJ 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.

SPECIFICATIONS:

Input

Voltage +22VDC to +32VDC at 3A typical

Simmer Output

Voltage Up to 300V (depending on flashlamp.)
Flashlamps should be processed for simmer operation.

Open Circuit Up to 1500V, $\pm 75V$

Current Up to 500mA

Current Control Internal multi-turn trimpot

Boost Current Up to 800mA for 8ms.

Enable +5V at 10mA enables simmer, 470 Ω impedance.

Efficiency

75% typical including material ballast

Simmer Trigger

Voltage -520V pulse at 63mJ

Pulsewidth $\geq 1\mu s$

Repetition Rate Automatic restrike at $\approx 30Hz$, if flashlamp is not lit.

Temperature

0° to 70°C, with output current derating.

Connections

Input/Output/ Power

Molex, 39-01-2101

Mating

Molex, 39-01-2100

Size

5.78" x 3.75" x 2.03"

Weight

1.41 lbs.



Specifications subject to change without notice.

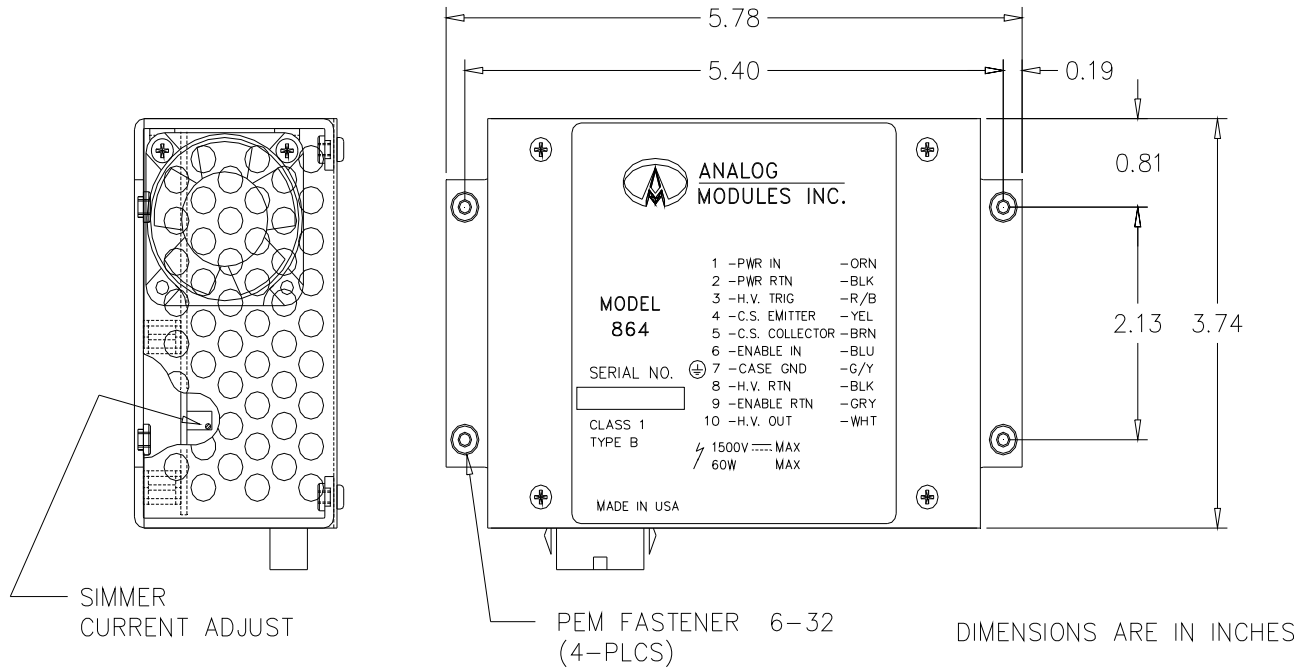
APPLICATIONS:

Full Simmer Supply with SCR Trigger Drive for Flashlamps

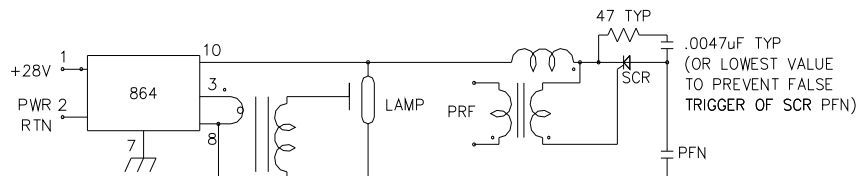
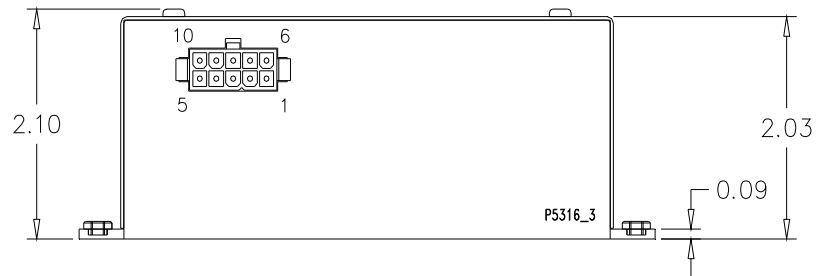
		MODEL NUMBER
		OUTPUT CURRENT
		500mA
INPUT VOLTAGE	+22DC TO +32VDC	864

Typical Part Number: **864 =**

Input Voltage: +22 to +32VDC
Output Current: 500mA



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



TYPICAL EXTERNAL TRIGGER CIRCUIT

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