



FLASHLAMP SIMMER SUPPLY

- Adjustable Current to 500 mA
- Adjustable Open Circuit Voltage to 1500 V
- Automatic Boost to Maintain Arc
- Up to 60 W Output
- SCR Drive for Trigger Transformer
- Directive 2011/65/EU (RoHS) Compliant



DESCRIPTION:

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

SPECIFICATIONS:

Input		Simmer Trigger	
Voltage	+22 VDC to +32 VDC at 3 A typical	Voltage	-520 V pulse at 63 mJ
Simmer Output		Pulsewidth	≥1 µs
Voltage	Up to 300 V (depending on flashlamp) Flashlamps should be processed for simmer operation.	Repetition Rate	Automatic restrike at ≈30 Hz, if flashlamp is not lit.
Open Circuit	Up to 1500 V, ±75 V	Temperature	0° to 70°C, with output current derating.
Current	Up to 500 mA	Connections	
Current Control	Internal multi-turn trimpot	Input/Output/ Power	Molex, 39-01-2101
Boost Current	Up to 800 mA for 8 ms.	Mating	Molex, 39-01-2100
Enable	+5 V at 10 mA enables simmer, 470 Ω impedance.	Size	5.78" x 3.75" x 2.03"
Efficiency	75% typical including material ballast	Weight	1.41 lbs.

Specifications subject to change without notice.



APPLICATIONS:

Full Simmer Supply with SCR Trigger Drive for Flashlamps

MODEL NUMBER

OUTPUT CURRENT

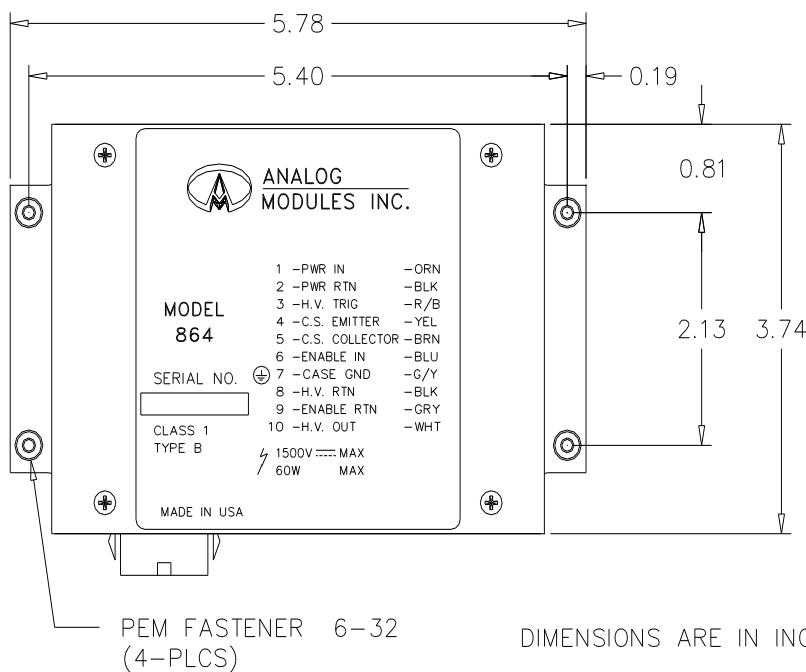
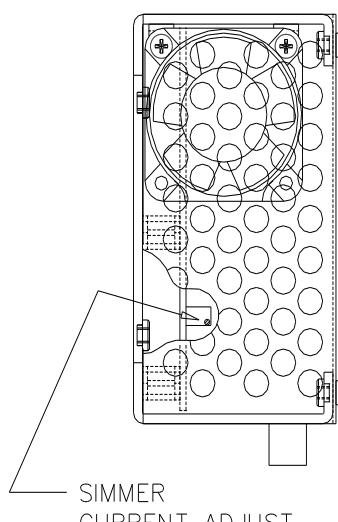
500 mA

INPUT VOLTAGE	+22 TO +32 VDC
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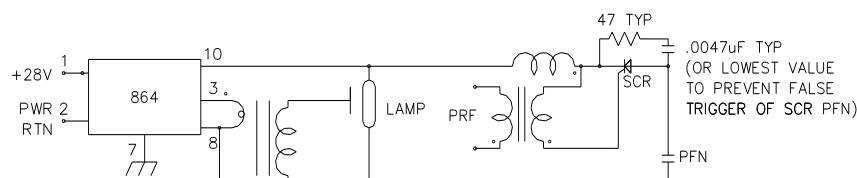
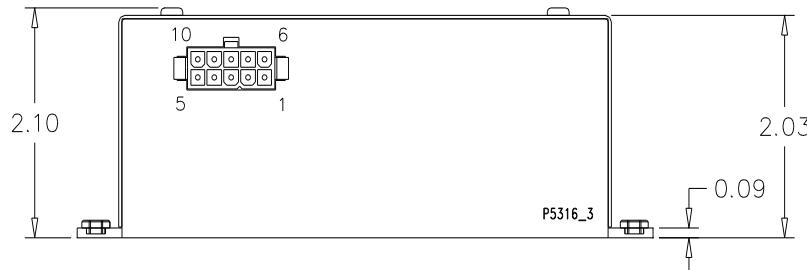
864A

Typical Part Number: **864A =**

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



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.