



### FLASHLAMP SIMMER SUPPLY

- ADJUSTABLE CURRENT TO 160mA
- 1300V OPEN CIRCUIT VOLTAGE
- AUTOMATIC BOOST TO MAINTAIN ARC
- UP TO 45W OUTPUT
- SCR DRIVE FOR TRIGGER TRANSFORMER



### DESCRIPTION:

The **Model 862A** 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 1300V. The simmer trigger output provides an SCR discharge of 550V at 66mJ 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. **Model 862A** is recommended for high pressure, long-arc lamps or series lamps.

### SPECIFICATIONS:

<p><b>Input</b> Voltage            +24VDC to +32VDC at 2A typical</p> <p><b>Simmer Output</b> Voltage            Up to 300V (depending on flashlamp.) Flashlamps should be processed for simmer operation.</p> <p>Open Circuit Current    1300V, ±75V Up to 160mA</p> <p>Current Control    Internal 25T trimpot</p> <p>Boost Current      Up to 500mA for 4ms For &gt;30Hz laser PRF, boost must be disabled (Add -D to part number.)</p> <p>Enable              +3.0 to +32V enables simmer, 18k impedance.</p>	<p><b>Efficiency</b>                    75% typical including internal ballast</p> <p><b>Simmer Trigger</b> Voltage                        -550V at 66mJ Pulsewidth                    ≥1µs Repetition Rate              Automatic restrike at ≈30Hz, if flashlamp is not lit.</p> <p><b>Temperature</b>                0° to 70°C</p> <p><b>Connections</b> Input/Output/ Power        Molex, 19-09-1099 Mating                         Molex, 19-09-2098</p> <p><b>Size</b>                            5.78" x 3.68" x 2.03"</p>
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*Specifications subject to change without notice.*



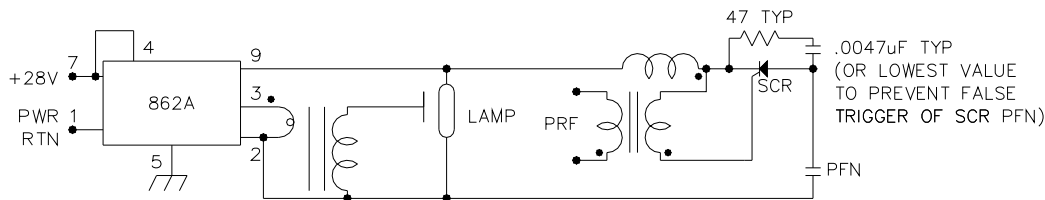
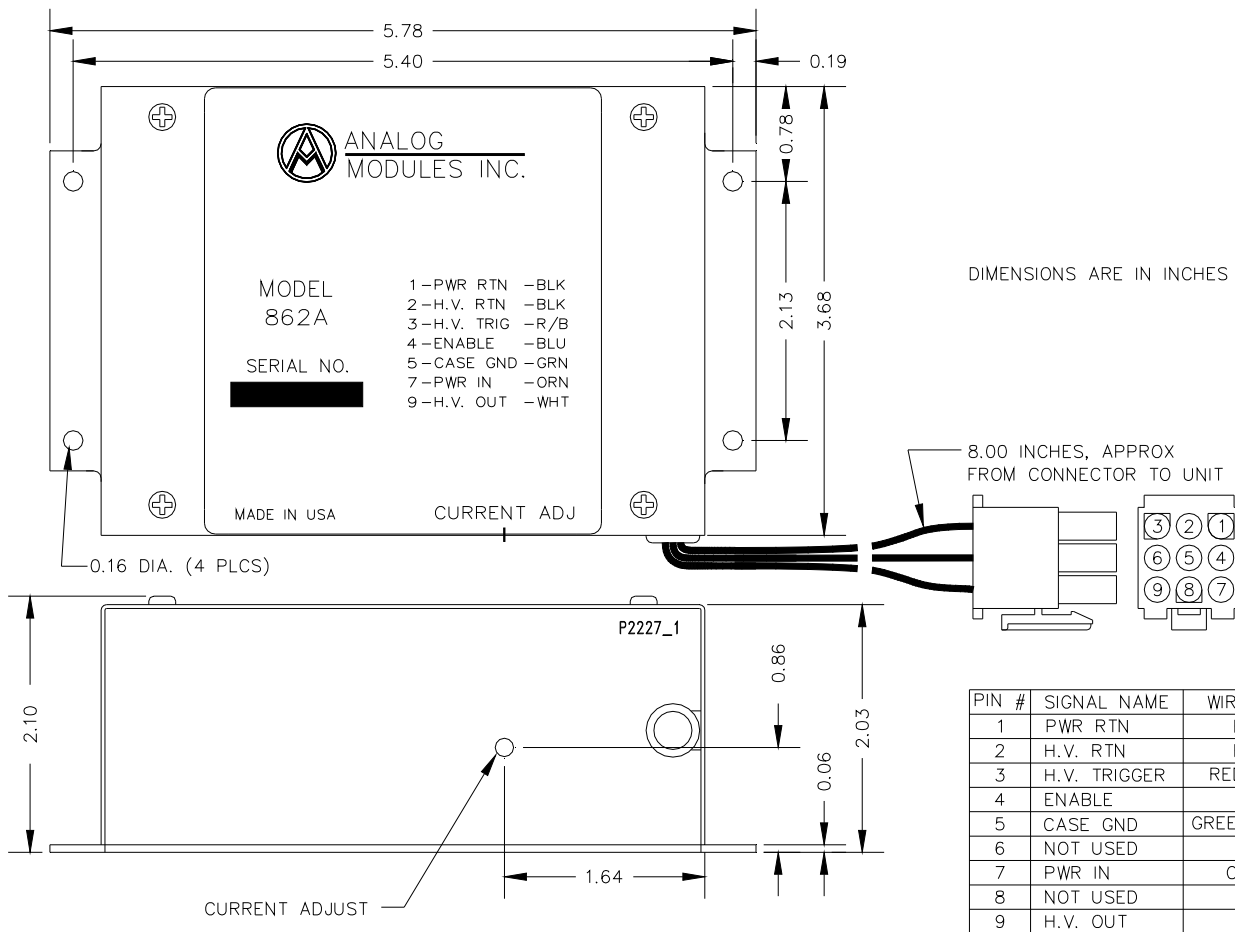
### APPLICATIONS:

*Full Simmer Supply with SCR Trigger Drive for Flashlamps*

		MODEL NUMBER
		OUTPUT CURRENT
		160mA
INPUT VOLTAGE	+24VDC TO +32VDC	<b>862A</b>

Typical Part Number: **862A-D =**

Input Voltage: +24 to 32VDC  
 Output Current: 160mA  
 Automatic Boost: Disabled for >30Hz laser PRF application



TYPICAL EXTERNAL TRIGGER CIRCUIT

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