



FLASHLAMP SIMMER SUPPLY

- ADJUSTABLE CURRENT TO 300mA
- 1300V OPEN CIRCUIT VOLTAGE
- AUTOMATIC BOOST TO MAINTAIN ARC
- UP TO 45W OUTPUT
- SCR DRIVE FOR TRIGGER TRANSFORMER



DESCRIPTION:

The **Model 863** 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 863* is recommended for higher simmer current (>160mA) applications.

SPECIFICATIONS:

<p>Input Voltage +24VDC to +32VDC at 2A typical (Up to 3A average with boost enabled)</p> <p>Simmer Output Voltage Up to 150V (depending on flashlamp.) Flashlamps should be processed for simmer operation.</p> <p>Open Circuit 1300V, ±75V Current Up to 300mA Current Control Internal 25T trimpot Boost Current Up to 1A for 4ms For >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>Efficiency 75% typical including internal ballast</p> <p>Simmer Trigger Voltage -550V pulse at 66mJ Pulsewidth ≥1μs Repetition Rate Automatic restrike at ≈30Hz, if lamp is not lit.</p> <p>Temperature 0° to 70°C, with output current derating.</p> <p>Connections Input/Output/ Power Molex, 19-09-1099 Mating Molex, 19-09-2098</p> <p>Size 5.78" x 3.68" x 2.03"</p>
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Specifications subject to change without notice.

APPLICATIONS:

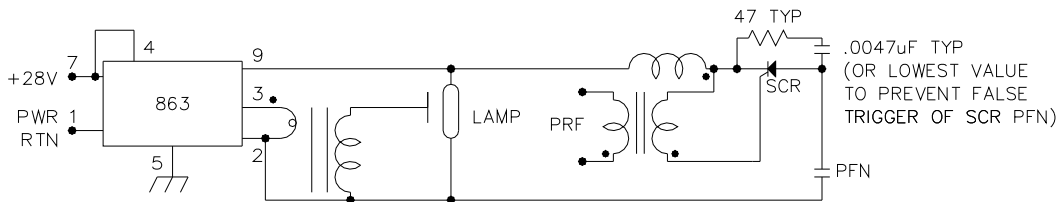
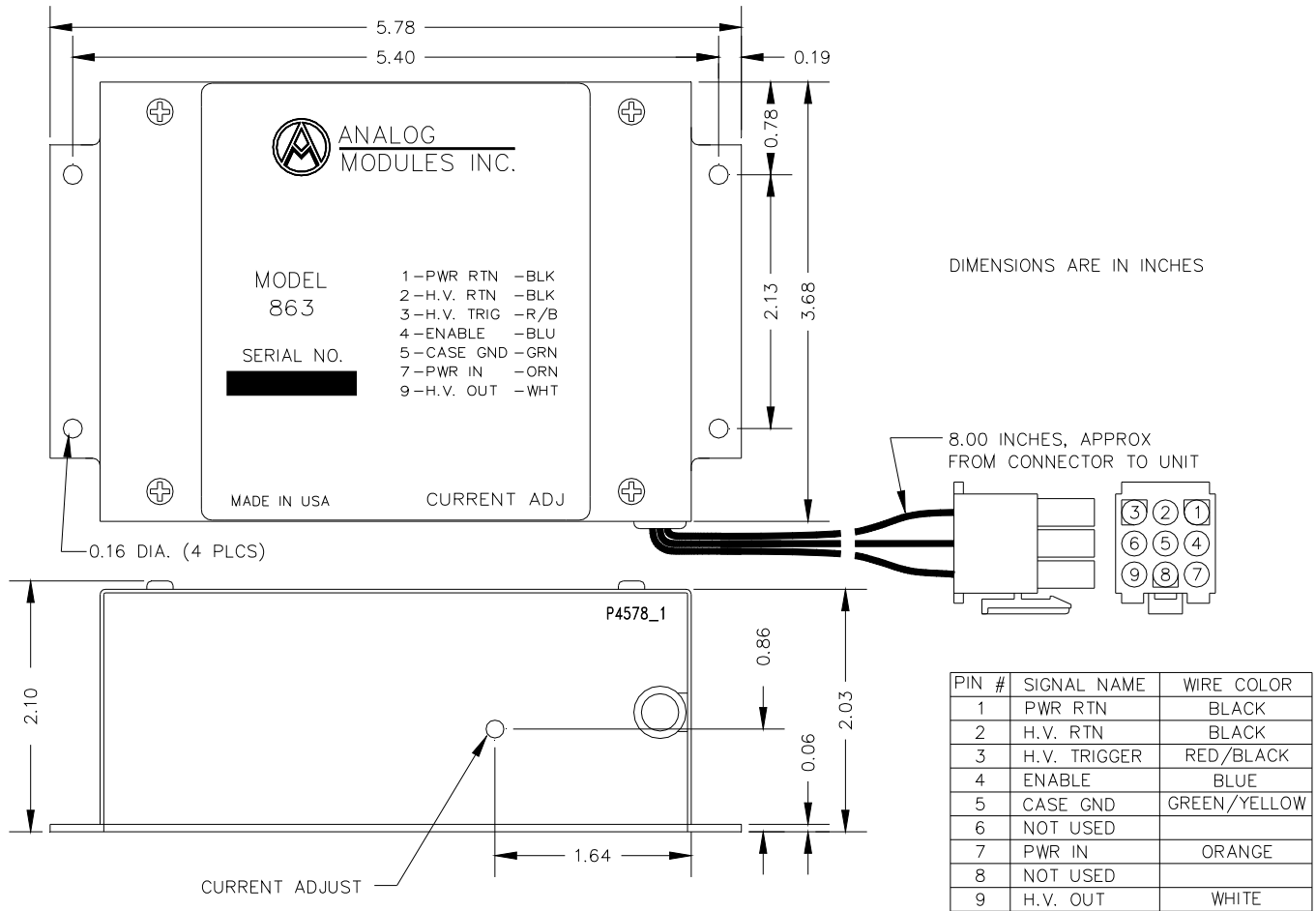
Full Simmer Supply with SCR Trigger Drive for Flashlamps



		MODEL NUMBER
		OUTPUT CURRENT
		300mA
INPUT VOLTAGE	+24VDC TO +32VDC	863

Typical Part Number: **863-D =**

Input Voltage: +24 to 32VDC
 Output Current: 300mA
 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.