



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	$\geq 1 \mu\text{s}$
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

