

FLASHLAMP SIMMER CONVERTERS

General Description

These simmer converters automatically trigger lamps into conduction, hold the lamps in low level excitation and boost the lamp current for several milliseconds to a higher level following a PFN discharge. The triggering is accomplished by discharging an internal capacitor into a user-supplied external trigger transformer at approximately 30Hz until the lamp is ignited. Once ignited, the lamp is held in constant current conduction over a wide range of operating conditions. No external components, other than a trigger transformer, are usually required for "parallel" triggered circuits. Some "series" triggered circuits may require the addition of an external ballast resistor for reliable simmer operation.

Specifications¹

MODEL NUMBER	1388-24-75	1388G-24-75M
INPUT VOLTAGE	22Vdc to 32Vdc	22Vdc to 32Vdc
INPUT CURRENT (AT 24VDC)	0.9A @ 75ma, 200V	0.9A @ 75ma, 200V
OUTPUT VOLTAGE (OPEN CIRCUIT)	1100Vdc-1200Vdc	1100Vdc-1200Vdc
OUTPUT CURRENT ADJUST	40ma to 100ma	40ma to 100ma
REVERSE INPUT POLARITY PROTECTION	yes	yes
INPUT LINE FILTER	yes	yes
INPUT/OUTPUT ISOLATION	no	yes, to $\pm 30V$
OPTOCOUPLED "SIMMER ON" SIGNAL OUTPUT	no	yes
OPTOCOUPLED SIMMER ENABLE	no	optional
APPROXIMATE SIZE	4.8" x 2.4" x 1.1"	6.28" x 2.5" x 1.36"

Additional Information

For additional information on Wilmore's flashlamp simmer converters, or for information on other power conditioning products such as capacitor-charging converters, dc-to-dc converters, dc-to-ac inverters, and uninterruptible power systems, please contact our sales department at:

Wilmore Electronics Company, Inc.
P.O. Box 1329
Hillsborough, N.C. 27278
Telephone: (919) 732-9351
FAX: (919) 732-9359

¹ These are typical operating specifications. For more detailed information, call our applications engineering department.