

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.