

# Ambulance Warning Light Flasher

## 4860GCPE



InPower's ambulance warning light flasher design represents a breakthrough in solid state flasher technology. The 4860GCPE flasher utilizes leading-edge surface mount technology (SMT) electronics and an advanced packaging design. The result is a very compact, high performance flasher with exceptional reliability and low cost.

A completely new innovation is InPower's *Mission Critical Technology* (MCT). Under extreme operating conditions such as high temperature and very high lamp loads conventional flashers will simply shut down. However, the MCT design provides automatic pulse width correction to reduce power to the lamps, thereby allowing operation under these abnormal conditions. Another MCT feature is individual lamp output over-current control. If one lamp output shuts down due to a short circuit or over-current condition the other lamp outputs remain operational.

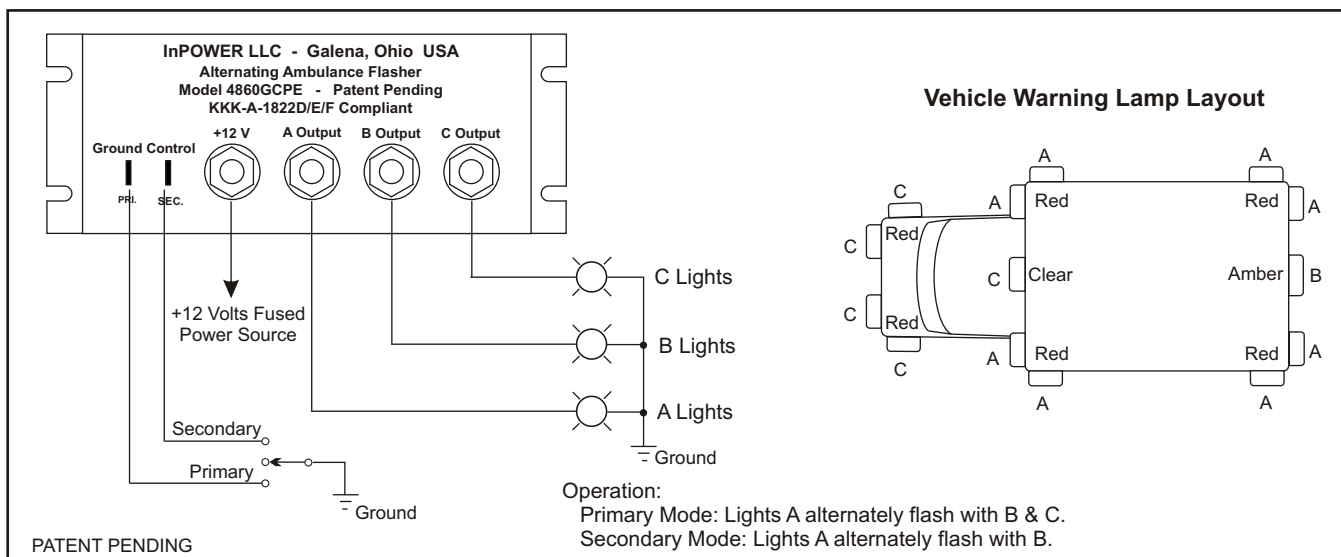
### Key Features

- *Mission Critical Technology* design keeps flasher running under extreme operating conditions.
- Conforms to specifications KKK-A-1822D/E/F.
- Supports LED and halogen lights.
- Low profile design with small footprint.
- Automatic shutdown protection for short-circuit, over-current and high temperature conditions.
- Sealed construction is resistant to mechanical shock and vibration.
- Rubber terminal boot cover option protects power terminals from accidental shorting.

The 4860GCPE flasher incorporates a unique lamp power driver that "soft starts" the lamp loads. Halogen and incandescent lamps exhibit very low on-resistance when cold. Conventional flasher circuits apply full 12 volt power to the cold lamps resulting in an extremely high in-rush current. This creates a thermal shock to the lamp filaments which can reduce lamp life. InPower's soft start design applies power to the lamps in such a way as to reduce this high in-rush current shock condition.

The 4860GCPE is an electronic alternating warning lamp flasher for halogen and LED lights. Three lamp outputs (A, B & C) provide +12 volts @ 40 amps each, and are short circuit and over-current protected. The design complies with Federal Specification KKK-A-1822D/E/F. Power terminals are 1/4-20 threaded studs. The control terminals are 0.250 inch male Fastons. Control inputs are ground actuated. In Primary Mode lamps A are alternately flashed with the B & C lamps. In Secondary Mode the A lamps are alternately flashed with the B lamps (C lamps off).

### System Diagram



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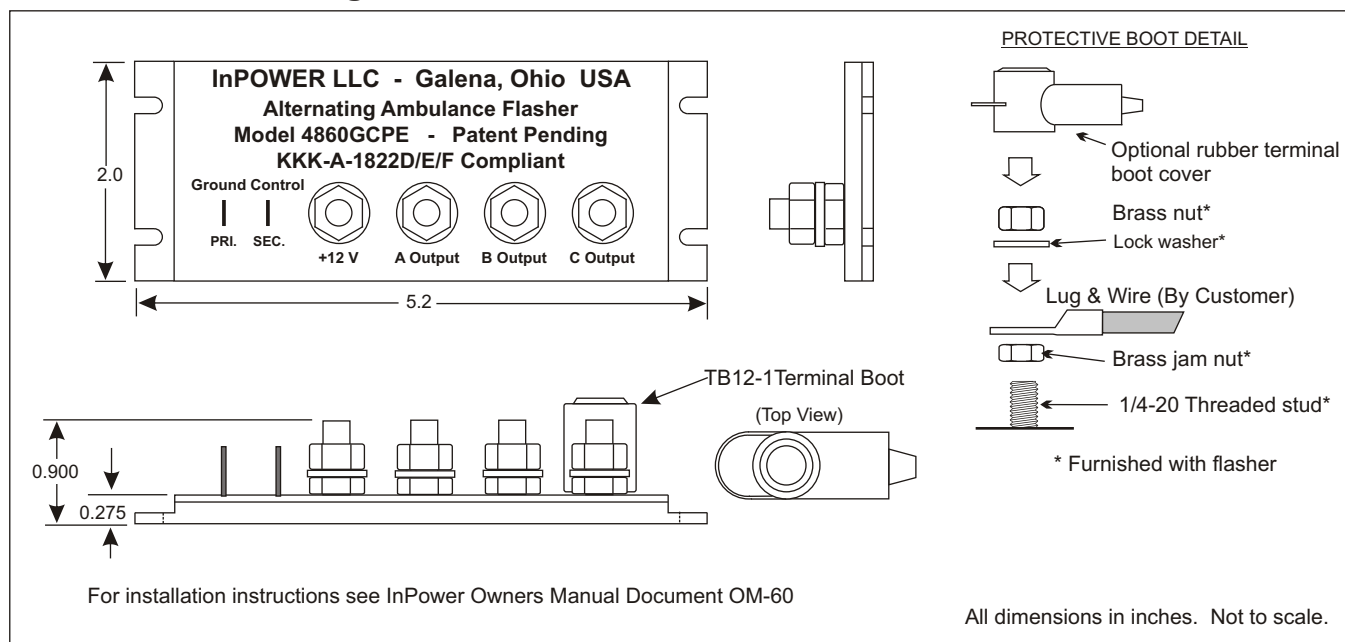
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### Specifications

Operating Voltage Range:	+6.0 to +19.0 volts
Current Rating:	
Output A:	40 Amps
Output B:	40 Amps
Output C:	40 Amps
Flash Rate:	75 per minute, 50% duty cycle
Case Operating Temperature Range:	-40° F to +145° F (-40° C to 63° C)
Control Input:	
Connector Type:	0.250 inch faston blade terminal (two male terminals on flasher)
Control Voltage - Primary:	Ground to activate
Control Voltage - Secondary:	Ground to activate
Protection:	Over current, short circuit, and high temperature automatic shutdown
Weight:	0.29 lbs (0.13 kg)
Dimensions:	2.00 x 5.20 x 0.90 inches (50.8 x 132.1 x 22.9 mm)
Power Terminals:	Four (4) 1/4 - 20 threaded studs, with nuts and lock washers.
Terminal Boot Covers:	Optional red vinyl covers for wire size 18 - 10 AWG (Part No. TB12-1).
Mounting Surface:	For optimal performance a metal mounting surface should be provided. Apply thermal grease (supplied with flasher) between flasher and the metal mounting surface.

NOTE - PATENT PENDING

### Mechanical Drawing



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