



Emergency Ballasts

Compact Fluorescent

B4CF1 Cold-Pak



Cold-Pak for Extreme Temps
One-lamp Emergency Illumination
End-of-Lamp-Life Compatible
For Damp Locations

Product order number: B4CF1M (galvanized metal case)

Project: _____
Type: _____
Model No: _____ Qty: _____
Date: _____
Notes: _____

Specifications

UL Listed for US and Canada

Listed to UL924 and tested to CSA 22.2 No. 141
Field or Factory Installation (Indoor and Damp)
Output Class 2 Compliant

Illumination Time

90 Minutes

Initial Light Output

Up to 1250 Lumens @ 25°C

Full Warranty

5 Years (NOT pro-rata)

Dual Input Voltage

120/277 VAC, 60 Hz

AC Input Current

300 mA

AC Input Power Rating

16 Watts

Test Switch

Single Pole

Battery

High-Temperature, Maintenance-Free
Nickel-Cadmium Battery
7- to 10-Year Life Expectancy

Battery Charging Current

220 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Temperature Rating (Ambient)

-20°C to +55°C (-4°F to +131°F)

Dimensions

9.4" x 2.6" x 1.5"
(238 mm x 67 mm x 38 mm)
Mounting Center 8.9" (226 mm)

Weight

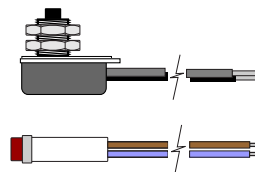
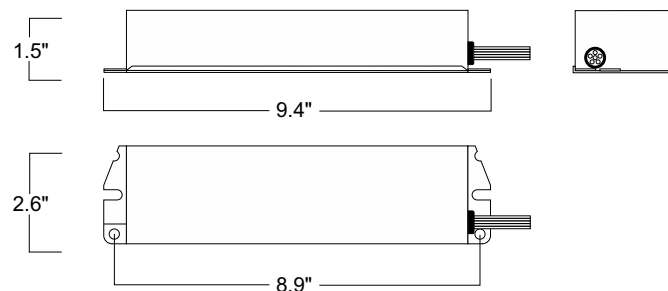
3.1 lbs. (1.4 kg)

Benefits:

- Operating range from -20°C to +55°C
- Up to 1250 lumens @ 25°C
- End-of-Lamp-Life Compatible

Dimensions

9.4" x 2.6" x 1.5" (mounting center - 8.9")



A test switch and charging indicator light is provided.



B4CF1 Cold-Pak

Flourescent Emergency Ballast, Extreme Temps, One-Lamp Emergency Illumination

Table 1 Lamp Compatibility

| LAMP | BASE | WATTAGE |
|----------------------------------------------------------|------------------------|---------|
| TWIN/QUAD/TRIPLE TWIN/ QUADRUPLE TWIN-TUBE COMPACT | 4-PIN (G24q, GX24q) | 13-42 W |
| LONG COMPACT | 4-PIN (2G11) | 18-39 W |
| T5 CIRCLINE | 4-PIN (2GX13) | 22-40 W |

Table 2 Initial Lumen Output

| LAMP (4-Pin) | LUMENS |
|------------------------------------|--------|
| | 1-Lamp |
| F42QBX, DULUX T/E 42W | 1250 |
| REDUCED MERCURY 42W/4P | 850 |
| 32W/4P, F32TBX, DULUX T/E 32W | 1250 |
| REDUCED MERCURY 32W/4P | 1100 |
| PL-T 26W/4P, F26TBX, DULUX T/E 26W | 700 |
| PL-T 18W/4P, F18TBX, DULUX T/E 18W | 900 |
| PL-T 13W/4P, F13TBX, DULUX T/E 13W | 700 |
| PL-L 36W, PHILIPS | 1100 |
| F39/36BX, DULUX L 36W | 1250 |
| PL-L 24W, F27/24BX, DULUX L 27W | 800 |
| PL-L 18W, F18BX, DULUX L 18W | 775 |
| FC9T5, FPC22 | 700 |
| FC12T5, FC12T5/HO, FPC40 | 1000 |

APPLICATION

The B4CF1 Cold-Pak emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency lighting equipment consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact case. The B4CF1 Cold-Pak can be used with one 13 - 42 W twin, quad or triple twin-tube lamp, one 22 - 40 W T5 circline or one 18 - 39 W long compact fluorescent lamp. It is also compatible with most one-, two-, three- and four-lamp electronic, standard, energy-saving and dimming AC ballasts. The B4CF1 Cold-Pak is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. It is not suitable for air handling heated air outlets or wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory.

OPERATION

When AC power fails, the B4CF1 Cold-Pak immediately switches to the emergency mode, operating one lamp at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the B4CF1 Cold-Pak either heats the battery or charges it, depending on the unit's ambient temperature. The B4CF1 Cold-Pak, using a patented circuit, delays AC ballast operation for approximately three (3) seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

INSTALLATION

The B4CF1 Cold-Pak does not affect normal fixture operation. It may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The B4CF1 Cold-Pak may be installed inside or on top of the fixture.

EMERGENCY ILLUMINATION

Depending upon the wattage and type of lamp selected, the B4CF1 Cold-Pak produces up to 1250 lumens initial emergency light output (see Table 2) at 25°C. Lumen output is greatly affected by lamp temperature during operation by either the AC or emergency ballast. Please contact factory for specific details.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine B4CF1 Cold-Pak emergency ballast. The B4CF1 Cold-Pak shall have temperature-control circuitry to fulfill both low-temperature and high-temperature operation. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 9.4" x 2.6" x 1.5" metal case. A solid-state charging indicator light to monitor the charger and battery,

a single-pole test switch and installation hardware shall be provided. The emergency ballast, using a patented circuit, shall delay AC ballast operation for approximately three (3) seconds to prevent false tripping of AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating one _____ fluorescent lamp (see Table 1) at _____ lumens (see Table 2) initial light output in the emergency mode for a minimum of 90 minutes. It shall be suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. The storage and operating temperature range for the B4CF1 Cold-Pak shall be -20°C to +55°C. The B4CF1 Cold-Pak shall have 16 Watts of input power and a 19.2 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The B4CF1 Cold-Pak shall be UL Listed (Pending) for factory or field installation.

WARRANTY

Model B4CF1 Cold-Pak is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our web site.

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