



Emergency Ballasts

Linear Fluorescent

B50 Cold-Pak



Cold Environment Applications
-20°C to 55°C Temperature Rating
One or Two-lamp Operation

Product order number: B50COLDPKAKREDM (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 1200 Lumens @ 25°C

Full Warranty

5 Years (NOT pro-rata)

Dual Input Voltage

120/277 VAC, 60 Hz

AC Input Current

240 mA

AC Input Power Rating

14 Watts

Test Switch

Single Pole

Battery

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

Battery Charging Current

165 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Temperature Rating (Ambient)

-20°C to +55°C (-4°F to +131°F)

Dimensions

13.3" x 2.4" x 1.5" (339 mm x 60 mm x 38 mm)
Mounting Center 12.8" (325 mm)

Weight

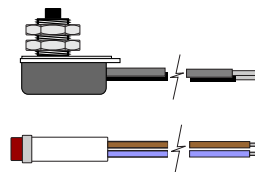
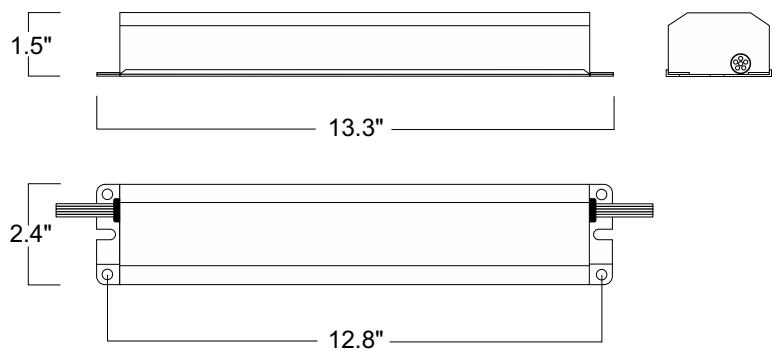
3.2 lbs. (1.45 kg)

Benefits:

- Operates in Extreme Cold Environments
- Ideal for Outdoor Egress Applications
- One- or Two-lamp Emergency Illumination

Dimensions

13.3" x 2.4" x 1.5" (mounting center - 12.8")



A test switch and charging indicator light is provided.



B50 Cold-Pak

Flourescent Emergency Ballast, Extreme Cold Environments

Table 1 Lamp Compatibility

LAMP (T8, T10, T12)	BASE	WATTAGE (Length)	NO. of LAMPS (EMERGENCY)
1" (T8)	Single or Bipin	17 - 40 W (2' - 4')	1
1 1/8" (T9)			2
1 1/4" (T10)		40 - 215 W (5' - 8')	1
1 1/2" (T12)			

APPLICATION

The B50Cold-Pak emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact red case. The B50Cold-Pak can be used with most 17 - 215 W (2' - 8') T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline and energy-saving. One- or two-lamp operation may be selected (see Table 1). It is also compatible with most one-, two-, three- and four-lamp electronic, standard, energy-saving and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The B50Cold-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 B50Cold-Pak immediately switches to the emergency mode, operating either one or two lamps at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the B50Cold-Pak either heats the battery or charges it, depending on the temperature.

INSTALLATION

The B50Cold-Pak does not affect normal fixture operation and 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 B50Cold-Pak may be installed inside the fixture. Contact the manufacturer for installation on top of or remote from the fixture.

EMERGENCY ILLUMINATION

Depending upon the number (one or two), wattage and type of lamps selected, the B50Cold-Pak produces up to 1200 lumens initial emergency light output (see Table 2) at 25° C. For lumens at different temperatures for one or two 32 W 4' T8 lamps, see Table 3. If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine B50Cold-Pak emergency ballast. The B50Cold-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 13 3/8" x 2 3/8" x 1 1/2" red 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 shall be capable of operating [one or two] _____ fluorescent lamp(s) (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 B50Cold-Pak shall be -20°C to +55°C. The B50Cold-Pak shall have 16 Watts of input power and a 21 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed (Pending) for factory or field installation inside, on top of or remote from the fixture and shall be warranted for a full five years from date of purchase. Contact the manufacturer for installation on top of or remote from the fixture.

Table 2 Initial Lumen Output

LAMP	LUMENS	
	1 Lamp	2 Lamps
FO32, FBO31 T8	1100	1200
FO96 T8	1200	
F96T8/HO	1050	
F96T12, HO, VHO	950	
F025, FBO24 T8	1100	1050
F28 2D/4P	1100	1100
F38 2D/4P	1000	1100
FO17, FBO16 T8	925	850
F40T12, F40U	950	950
F48T12/HO	1025	

Table 3 Initial Lumen Output

AMBIENT TEMPERATURE (°C)	LUMENS PROVIDED WITH 32 W 4' T8 LAMP(S)	
	1 LAMP	2 LAMP
25	1100	1175
10	675	705
5	550	635
0	400	505
-5	350	415
-10	Call Factory	260
-15	Call Factory	260
-20	Call Factory	Call Factory

WARRANTY

Model B50 Cold-Pak is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our web site.

