CHLORIDE SYSTEMS

TYPE: _____

CATALOG NO.: _____

C700A

Fluorescent Emergency Ballast

For Two Hour Emergency Illumination
700 Lumen Maximum Output

General Description

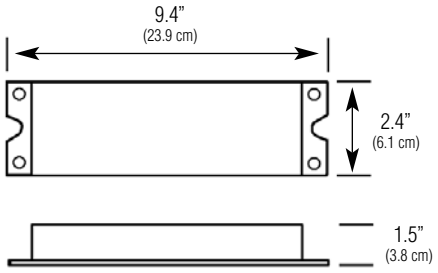
The C700A Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The C700A may be installed in or near the fixture to provide unobtrusive life safety protection. The C700A meets the Buy American requirements.

Illumination

The C700A provides up to 120 minutes of emergency illumination by utilizing existing fluorescent lighting, and produces 600 - 700 lumens initial emergency light output. During emergency illumination, one lamp is illuminated at a reduced lumen output level.

The C700A can be used with most 17w to 215w (2'-8') T8, T10, or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline, energy saving, and 4-pin compacts. It is also compatible with most 1, 2, 3, and 4-lamp electronic, standard, energy saving and dimming AC ballasts. See lamp operation for specific lamp types.

Dimensions



Dimensions are approximate and subject to change.

Housing

Housing is constructed of 20 gauge steel with a high temperature powder coat paint finish.

Slim housing allows for wireway channel mounting on most recessed luminaires.

Electronics

120/277 VAC dual voltage input with surge protection, solid-state charging circuitry provides for a reliable charging system.

Charging system is complete with AC indicator lamp and test switch.

Battery

Maintenance free, sealed nickel cadmium battery

Supplies 120 minutes of emergency power

Estimated service life of 10 years

Operating temperature range of 32°F (0°C) to 131°F (55°C)

Lamp Operation[1]

Operates the following lamp types[2]:

T8 Linear Fluorescent
T12 Linear Fluorescent
T9 Circline
T12 U-Bent
T5 Long Compact Fluorescent

NOTES:

1) Consult factory for compatibility, operation and performance of product with lamp types not listed.
2) See table 1 on back for specific lamp performance and operation.

SHOWN: C700A

Code Compliance

UL 924 listed

Damp Location Listing Optional

NFPA 70 and NFPA 101, NEC, BOCA, OSHA and IBC illumination standards

Suitable for use in sealed and gasketed fixtures

Electrical Specifications

Input power requirements
4 watts max.

Warranty

Three year full electronics warranty

Three year full battery warranty

Ordering Information (Example:C700A)

C700A	—	
FLUORESCENT EMERGENCY BALLAST		OPTIONS

C700A = 700 Lumen Max. Output Fluorescent Emergency Ballast for One Lamp Operation

EX = Special Input Transformer (specify voltage and frequency)
DL = Damp Location Listing

ACCESSORIES (order as a separate line item)

CCAPS = Wire Cover Kit for External Mounting
RTS = Remote Test Plate
RTS2 = Remote Test Switch & Pilot Light Kit (includes plate)

Specification Data for C700A Fluorescent Emergency Ballast

Housing

Housing is constructed of 20 gauge metal with a high temperature powder coat paint finish.

Housing is very compact, thus allowing for wireway channel mounting on most lighting fixtures.

Electronics

Dual voltage 120/277 VAC input is standard.

An indicator light and test switch are available to signify that AC utility is present, and periodically transfer to emergency operation.

Battery charging circuitry is entirely solid-state, and of a constant current design. Battery recharge time after a complete discharge is less than the required UL 924 standard.

Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltages present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch installed on the luminaire, or in a remote location.

Battery

Sealed, maintenance free nickel cadmium battery is equipped with a quick connect plug assembly for easy installation.

Standard sustained emergency operation is for 120 minutes with the illumination source providing full light output.

The suggested operating temperature range for nickel cadmium batteries is of 32°F (0°C) to 131°F (55°C) and should provide a service life of 10 years.

Electrical Specifications

Input power requirements
4 watts max.

Code Compliance

The C700A meets or exceeds all performance standards as required by UL 924, NEC, NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC.

Lamp Operation and Performance

Table 1

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
F20T12	20	G13/Med Bi-Pin	1275	600 - 700	One
F30T12	30	G13/Med Bi-Pin	2350	600 - 700	One
F40T12	40	G13/Med Bi-Pin	2650	600 - 700	One
F60T12	50	FA8/Single-Pin	3750	600 - 700	One
F72T12	55	FA8/Single-Pin	5500	600 - 700	One
F96T12	60	FA8/Single-Pin	5500	600 - 700	One
F24T12HO	35	R17D/Recessed	1620	600 - 700	One
F36T12HO	45	R17D/Recessed	2800	600 - 700	One
F48T12HO	60	R17D/Recessed	4050	600 - 700	One
F60T12HO	75	R17D/Recessed	5150	600 - 700	One
F72T12HO	85	R17D/Recessed	6350	600 - 700	One
F84T12HO	100	R17D/Recessed	7700	600 - 700	One
F96T12HO	95	R17D/Recessed	8000	600 - 700	One
F48T10	110	R17D/Recessed	6200	600 - 700	One
F17T8	17	G13/Med Bi-Pin	1350	600 - 700	One
F25T8	25	G13/Med Bi-Pin	2150	600 - 700	One
F32T8	32	G13/Med Bi-Pin	2950	600 - 700	One
F40T8	40	G13/Med Bi-Pin	3725	600 - 700	One
F72T8	35	FA8/Single-Pin	3000	600 - 700	One
F96T8	50	FA8/Single-Pin	5950	600 - 700	One
FC6T9	20	G10Q/4--Pin	800	600 - 700	One
FC8T9	22	G10Q/4--Pin	1100	600 - 700	One
FC12T9	32	G10Q/4--Pin	1950	600 - 700	One
FC16T9	40	G10Q/4--Pin	2700	600 - 700	One
F39/36BX	39	2G11/4--Pin	2850	600 - 700	One
F40/30BX	40	2G11/4--Pin	3150	600 - 700	One

NOTES:

1) Maximum non-emergency lumen output can vary based on lamp manufacturer, ambient operating temperature, and ballast manufacturer.
2) Maximum emergency lumen output is based on total output of one or two lamps, and can vary based on lamp manufacturer and ambient operating temperature.
3) Maximum emergency lumen output is supported for a full 120 minutes of operation.
4) Consult factory for compatibility, operation and performance of lamp types not listed.

Suggested Specification

Furnish and install Chloride's fluorescent emergency ballast model C700A. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination for a minimum period of 120 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 120 minutes.

CHARGER - Unit shall utilize a solid-state, constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization. The following features shall be standard: Low voltage disconnect (LVD), brownout protection and AC lockout.

BATTERY - The battery shall be a maintenance free, nickel cadmium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 131°F (55°C). Nickel cadmium batteries shall be supplied with a three year full warranty.

ENCLOSURE - The housing shall be constructed of 20 gauge steel with a high temperature powder coat paint finish. The slim housing shall allow for wireway channel mounting on most recessed luminaires.

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