



GC Series

Steel Troffer Units



Description

6 and 12 volt emergency lighting units designed for suspended ceiling installations. Units feature rugged steel construction and high output incandescent lighting heads.

Features

- 6 and 12 volt models
- Heavy gauge steel cabinet in white finish
- Fast, easy drop-in installation
- Fully adjustable thermoplastic lighting heads with high output incandescent lamps
- Choice of maintenance-free lead calcium or long life nickel cadmium battery models
- 90 Minutes of emergency illumination
- Universal 120/277VAC input
- Fully automatic, temperature compensating, variable rate float charger standard
- Automatic low voltage battery disconnect protects battery from deep discharge
- Automatic brownout protection
- AC lockout feature reduces installation time
- Optional self-diagnostic circuit available
- Momentary test switch and AC ready indicator
- Meets NFPA Life Safety Code 101, NEC, OSHA, State and local Codes
- UL924 listed

Ordering Guides

Model No.	Volts	Watts For 1 1/2 Hrs.	Watts For 2 Hrs.	Watts For 3 Hrs.	Watts For 4 Hrs.	Standard Lamp	Weight (Lbs.)
Lead Calcium Battery Models							
GC-1	6	26	20	14	11	7.2W (-03)	15
GC-2	6	52	41	29	22	7.2W (-03)	19
GC-13	6	90	71	50	39	7.2W (-03)	29
12GC-12	12	32	25	17	14	9W (-51)	19
12GC-14	12	52	41	29	22	9W (-51)	19
12GC-18	12	104	82	55	46	9W (-51)	29
12GC-20	12	124	97	69	54	9W (-51)	32
Nickel Cadmium Battery Models							
GCN-1	6	26	20	14	11	7.2W (-03)	15
12GCN-12	12	30	23	16	13	9W (-51)	19
12GCN-14	12	52	41	29	22	9W (-51)	19

NOTE: All product specifications shown are subject to change without notice.

Options ⁽¹⁾⁽²⁾

Add Suffix	Description
-V	Voltmeter ⁽³⁾
-A	Ammeter ⁽³⁾
-220	220VAC, 50Hz Input
-B	Black Finish - Lighting Heads and Trim Plate
-SP	Special Paint Finish - Specify Color
-A2H	Four Factory Installed Lighting Heads
-MH	Metal Lighting Heads
-SX	Self-Diagnostic Circuit

(1) Other options available. Consult factory.

(2) Some options may impact product UL listing. Consult factory.

(3) Unit has provisions for one meter option only.

Specifier Reference

Project: _____

Fixture Type: _____

Model No.: _____

Comments: _____

Accessories

Order Model	Description
900-W-03	Matching 6 Volt Remote Head-Single (6V, 7.2W)
901-W-03	Matching 6 Volt Remote Head-Double (6V, 7.2W)
900-W-51	Matching 12 Volt Remote Head-Single (12V, 9W)
901-W-51	Matching 12 Volt Remote Head-Double (12V, 9W)

Construction

Housing: Heavy duty steel cabinet is finished in neutral cream baked-on powder paint providing scratch and corrosion resistance. Optional black (-B) and special color paint (-SP) finishes are available, see Options on front for ordering details.

Lighting Heads: Impact resistant, UV stable, flame rated thermoplastic lamp housing and swivel assemblies in neutral cream color to match unit housing. Lighting heads are fully adjustable and feature lockable swivels.

Installation

Mounting: Units are designed for drop-in installation in suspended T-grid type ceiling applications by means of integral mounting tabs. Housing tabs are also provided for attachment of security wires (installer supplied).

Wiring: AC utility wiring is provided for by conduit knockouts in the top and both sides of the unit housing.

Illumination

High output incandescent maximize illumination characteristics through a specially designed reflector and glass lens assembly that provides glare-free light distribution.

Lamp Type: Incandescent - wedge base

Lamp Rating - 6V Models: 6 volts, 7.2 watts

Lamp Rating - 12V Models: 12 volts, 9 watts

Lamp Life: 100 hours (expected average)

Code Information

All models are UL924 Listed and meet NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes

Charger and Electronics

Charger Type: Fully automatic, temperature compensating, variable rate float charger

Utility Input: 120/277VAC, 60 Hz.

Power Consumption: 15 watts (maximum)

Temperature Range: 68°F to 86°F (20°C to 30°C)

Recharge Duty Cycle: 24 hours

Load Transfer: 6 volt models rated 25 watts or less and 12 volt models rated 50 watts or less utilize a solid state transfer circuit for load connection. All other models utilize mechanical relays for load transfer and provide fused DC load connections.

Controls: Momentary test switch and LED AC-On indicator light
Safety Circuitry:

AC Lockout: Prevents battery discharge prior to initial unit power-up saving installation time.

Low Voltage Battery Disconnect: Protects the battery from being severely damaged by deep discharge during prolonged power failures.

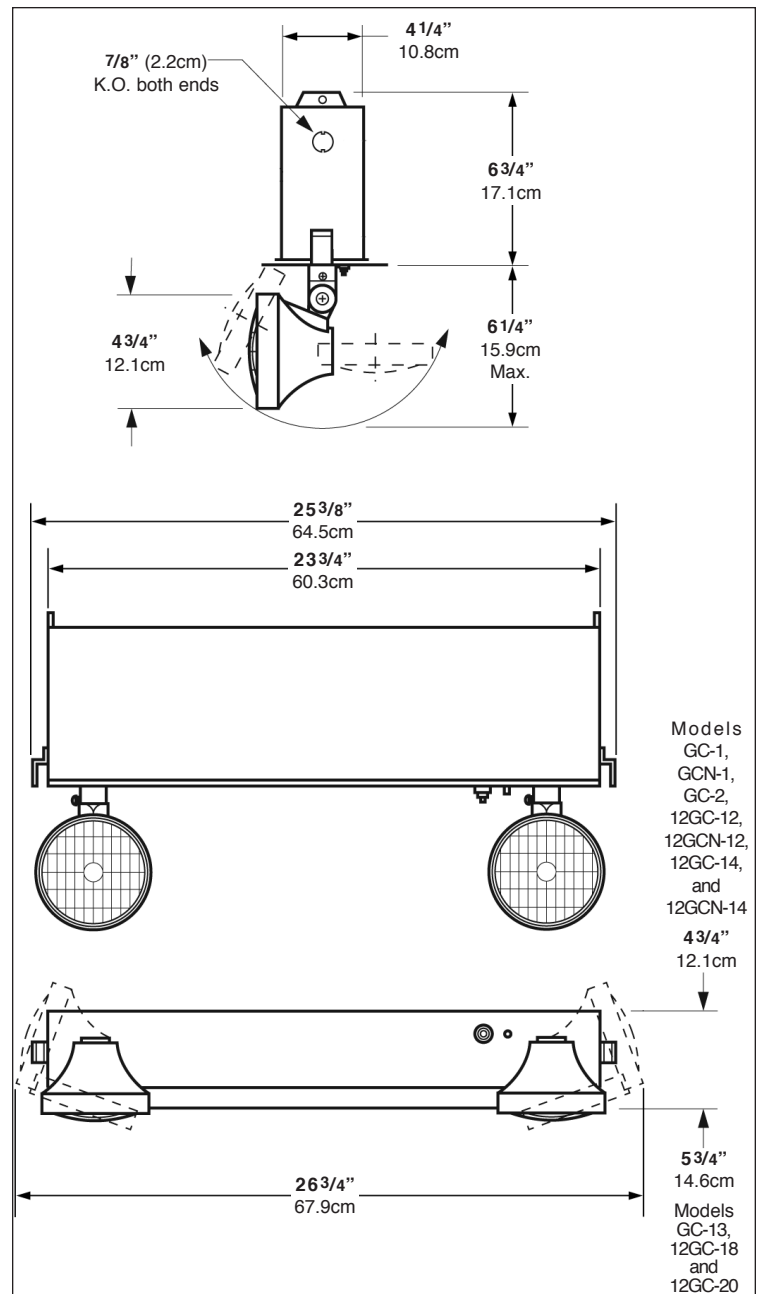
DC Overload and Short Circuit Protection: Provided by a disconnect circuit that automatically resets itself when the fault condition is corrected.

Brownout Protection: Automatically switches the unit to emergency mode when utility voltage reaches the point at which most fluorescent light fixtures would extinguish.

Emergency Operation

Upon failure of the normal utility power, a solid-state transfer switch automatically connects the unit's battery to the emergency lamp. Emergency illumination will be supplied for a minimum of 90 minutes. During emergency operation, the unit battery is protected from severe discharge damage by an automatic low voltage disconnect circuit that discontinues unit operation when battery voltage reaches 87.5% of nominal. When normal utility power is restored, the battery is automatically disconnected from the load and a recharging cycle begins that will return the battery to full capacity within 24 hours.

Dimensions



Optional Self-Diagnostic Circuit

The optional SX self-diagnostics circuit automatically cycles the emergency lighting unit every 25-30 days. The SX circuit checks for battery charging and over charging, battery capacity and reports any system malfunction. By design the SX does not activate the lighting heads, thus avoiding substantial lamp life reduction.

Battery

Models are offered which provide either standard duty **lead calcium** or longest life **nickel cadmium** batteries. Both battery types are fully maintenance free and designed to provide many years of dependable service.

Warranty

Unit: (excluding lamps) 3-years full coverage against defects in materials and workmanship from date of shipment

Battery: 3 years full warranty plus an additional 7 years of pro-rata coverage