



Description

6, 12 and 24 volt emergency lighting units in capacities up to 164 watts featuring traditional style and rugged steel construction.

Features

- 6, 12 and 24 volt models
- 15 to 200 watt capacities
- Heavy gauge steel cabinet in neutral cream finish
- Fully adjustable thermoplastic lighting heads with locking swivel assemblies
- 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, Local and State Codes
- UL924 listed

Ordering Guide

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							
GRL-3	6	16	12	8	7	7.2W (-03)	8
GRL-5	6	26	20	14	11	7.2W (-03)	10
GRL-7	6	32	25	17	14	7.2W (-03)	12
GRL-9	6	52	41	29	22	7.2W (-03)	16
GRL-11	6	64	50	35	28	7.2W (-03)	21
GRL-13	6	90	71	50	39	7.2W (-03)	27
G12RL-12	12	32	25	17	14	9W (-51)	12
G12RL-14	12	52	41	29	22	9W (-51)	16
G12RL-16	12	64	50	35	28	9W (-51)	21
G12RL-18	12	104	82	58	46	9W (-51)	27
G12RL-20	12	124	97	69	54	9W (-51)	33
G12RL-22	12	164	129	91	72	9W (-51)	40
G24RL-15	24	40	31	22	17	9W (-89)	20
G24RL-17	24	64	50	35	28	9W (-89)	24
G24RL-19	24	104	82	58	46	9W (-89)	30
G24RL-25	24	124	97	69	54	9W (-89)	35
Nickel Cadmium Battery Models							
GRLN-3	6	15	11	8	6	7.2W (-03)	8
GRLN-5	6	26	20	14	11	7.2W (-03)	10
G12RLN-12	12	30	23	16	13	9W (-51)	12
G12RLN-14	12	52	41	29	22	9W (-51)	16
Options⁽¹⁾⁽²⁾							
Add Suffix	Description						
/V	Voltmeter ⁽³⁾						
/A	Ammeter ⁽³⁾						
/LC1	3-Conductor Line Cord (120V)						
/LC2	3-Conductor Line Cord (277V)						
/TD1	15-Minute Re-transfer Time Delay (120V)						
/TD2	15-Minute Re-transfer Time Delay (277V)						
/220	220V, 50Hz Input						
/SX	Self-Diagnostic Circuit (6 and 12V models only)						
/MH	Metal Lighting Heads						
/B	Black Finish - Housing and Lighting Heads						
/SP	Special Paint Finish - Specify Color						
Accessories							
Order Model	Description						
B-1	Mounting Bracket						
S-1	Mounting Shelf (GRL-3, -5, -7 and G12RL-12 models)						
S-2	Mounting Shelf (GRL-9, -11, G12RL-14, -16 and G24RL-15, 17 models)						
S-3	Mounting Shelf (GRL-13, -15, G12RL-18, 20 and G24RL-19, 25 models)						
S-6	Mounting Shelf (G12RL-22 model)						
PG-1	Wire Guard (All except GRL-13, -15, G12RL-18, -20 and G24RL-19, -25 models)						
PG-2	Wire Guard (GRL-13, -15, G12RL-18, -20 and G24RL-19, -25 models)						
G900-W-03	Matching Remote Head-Single (6 Volt models) (6V, 7.2W)						
G900-W-51	Matching Remote Head-Single (12 Volt models) (12V, 9W)						
G900-W-89	Matching Remote Head-Single (24 Volt models) (24V, 9W)						
G901-W-03	Matching Remote Head-Double (6 Volt models) (6V, 7.2W)						
G901-W-51	Matching Remote Head-Double (12 Volt models) (12V, 9W)						
G901-W-89	Matching Remote Head-Double (24 Volt models) (24V, 9W)						

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

(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: _____

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 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 mounting to walls by means of keyhole slots provided in the back of the unit housing. Units may also be mounted by means of accessory wall bracket or mounting shelf. See Ordering Guide on front for details.

Wiring: Knockouts are provided in the back of the housing for rear wiring from standard electrical boxes. Surface wiring is also provided for by conduit knockouts in the top and left hand side of the unit housing.

Illumination

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

- Lamp Type 6 and 12V models: Incandescent - wedge base
- Lamp Type 24V models: Incandescent - bayonet base
- 6 Volt Lamp Rating: 6 volt, 7.2 watt
- 12 Volt Lamp Rating: 12 volt, 9 watt
- 24 Volt Lamp Rating: 24 volt, 9 watt
- 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.

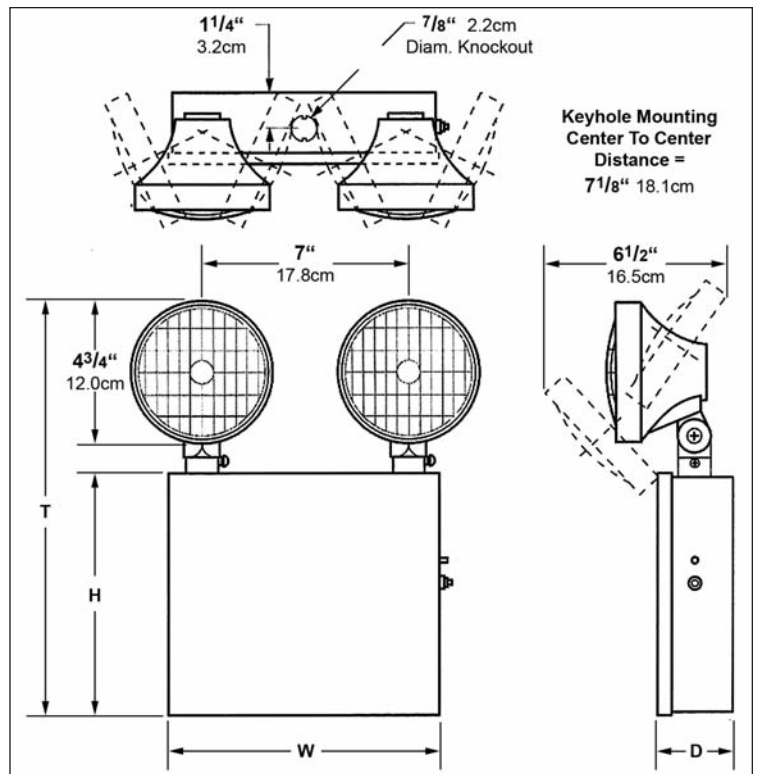
DC Overload and Short Circuit Protection: On units with solid state transfer, output protection is provided by a disconnect circuit that automatically resets itself when the fault condition is corrected. On units with mechanical relay transfer, output protection is provided by fused load connections. See Load Transfer above for details.

Brownout Protection: Automatically switches the unit to emergency mode when utility voltage is reduced to 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

Dimensions



Model No.	Dimensions - Inches (cm)			
	D	W	H	T
GRL-3, GRLN-3	2 7/8 (7.3)	9.0 (22.9)	8 1/8 (20.6)	14 1/8 (35.9)
GRL-5, GRLN-5	2 7/8 (7.3)	9.0 (22.9)	8 1/8 (20.6)	14 1/8 (35.9)
GRL-7	2 7/8 (7.3)	9.0 (22.9)	8 1/8 (20.6)	14 1/8 (35.9)
GRL-9	2 7/8 (7.3)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
GRL-11	2 7/8 (7.3)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
GRL-13	4 1/8 (10.5)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G12RL-12, G12RLN-12	2 7/8 (7.3)	9.0 (22.9)	8 1/8 (20.6)	14 1/8 (35.9)
G12RL-14	2 7/8 (7.3)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G12RL-16	2 7/8 (7.3)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G12RL-18, G12RLN-18	4 1/8 (10.5)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G12RL-20	4 1/8 (10.5)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G12RL-22	3 7/8 (9.8)	18 1/2 (47.0)	9.0 (22.9)	15.0 (38.1)
G24RL-15	2 7/8 (7.3)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G24RL-17	2 7/8 (7.3)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G24RL-19	4 1/8 (10.5)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)
G24RL-25	4 1/8 (10.5)	12 1/4 (31.1)	8 1/4 (21.0)	14 1/4 (36.2)

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.

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