

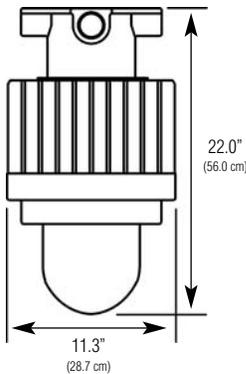
GENERAL DESCRIPTION

The R-Series self-contained emergency lighting unit is ideal for use in hazardous locations where explosive materials may be present. The R-Series is suitable for use in extreme hazardous location areas.

ILLUMINATION

Illumination is accomplished with three 12 volt, 20 watt MR16 halogen lamps. Each high intensity lamp can be independently adjusted to provide custom emergency lighting to a specific area.

DIMENSIONS



Dimensions are approximate and subject to change.

R-Series

Self-Contained Hazardous Location Emergency Lighting Unit

HOUSING

Copper-free cast aluminum enclosure designed to withstand the pressure of explosions generated by internal arc without propagating them into the hazardous atmosphere. Enclosure has a corrosion resistant, epoxy powder coat finish.

Includes high impact, heat resistant globe with a cast aluminum globe guard, and stainless steel external hardware.

Ceiling and wall mount fixtures have universal junction box with four tapped holes for 3/4" rigid conduit (3 close-up plugs provided.)

Pendant mount fixture has 3/4" top hub.

Optional exit accessory is available.

ELECTRONICS

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

Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and remote hazardous location test switch.

BATTERY

Includes four maintenance free lead calcium batteries to provide 12 VDC output of 60 watts for 90 minutes.

Safety disconnect feature automatically disconnects lamps from battery if globe is removed.

ELECTRICAL SPECIFICATIONS

Input power requirements

120 VAC - 60 watts

277 VAC - 60 watts



SHOWN: RWTHF6012

CODE COMPLIANCE

UL listed to 924 and 844

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

Suitable for use in Class I, Div. 1, Groups C & D, Zones 0, 1 & 2, Groups IIA, IIB + H₂ & IIC; Class I, Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + H₂ & IIC; Class II, Div. 1, Groups E, F & G; Class II, Div. 2, Groups F & G; and Class III hazardous location areas

Rated for use in NEMA 7CD and 9EFG areas

Temperature performance ratings (maximum ambient temperature 160°C): -T6 (Class I), T5 (Class II)

ORDERING INFORMATION (EXAMPLE: RWTHF6012)

R

SERIES

R = R-Series

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MOUNTING CONFIGURATION

W = Wall
 P = Pendant
 C = Ceiling

THF6012

LAMP WATTAGE

THF6012 = (3) 12v, 20w Halogen

ACCESSORIES (order as a separate line item)

EFK2 = Exit accessory kit (red letter only)



Specification Data for R-Series Self-Contained Hazardous Location Emergency Lighting Unit

HOUSING

Copper-free cast aluminum enclosure is designed to withstand the pressure of explosions caused by internal arc without propagating them into the hazardous atmosphere.

Enclosure has a corrosion resistant, epoxy powder coat finish.

Includes a high impact, heat resistant lamp globe with a cast aluminum globe guard, and stainless steel external hardware.

Ceiling and wall mount fixtures have universal junction box with four tapped holes for 3/4" rigid conduit (3 close-up plugs provided.) Pendant mount fixture has 3/4" top hub.

ELECTRONICS

120/277 VAC dual voltage input with surge-protected, solid-state charging circuitry provides for a reliable charging system. The charging system is furnished with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

The low voltage disconnect (LVD) feature will disconnect the battery prior to an unacceptable deep discharge, but not before the required 90 minute emergency operation.

The AC lockout feature prevents battery drain prior to the initial energizing of utility power, and allows the installer to complete all wiring and electrical connections without energizing the emergency circuit.

The brownout protection circuitry will automatically switch the unit into the emergency mode if the utility voltage sags below 20% of nominal.

Battery charging circuitry is entirely solid-state, and utilizes a fully automatic, voltage regulated charger. Battery recharge time after full discharge is less than the required UL 924 standard.

Line sensitive electronics cause an instantaneous transfer to battery power if utility power is lost, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery.

BATTERY

Includes four maintenance free lead calcium batteries to provide 12 VDC output of 60 watts for 90 minutes.

CODE COMPLIANCE

The R-Series meets or exceeds all performance standards as required by UL 924, UL 844, NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC.

The R-Series is suitable for use in Class I, Div. 1, Groups C & D, Zones 0, 1 & 2, Groups IIA, IIB + H₂ & IIC; Class I, Div. 2, Groups C & D, Zone 2, Groups IIA, IIB + H₂ & IIC; Class II, Div. 1, Groups E, F & G; Class II, Div. 2, Groups F & G; and Class III hazardous location areas.

ELECTRICAL SPECIFICATIONS

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