



EVCHL Series

HIGH LUMEN COMBINATION EXIT/EMERGENCY LIGHT

| | |
|------------|-----------|
| DATE: | LOCATION: |
| TYPE: | PROJECT: |
| CATALOG #: | |

EV FAMILY

FEATURES

- High lumen output exit and emergency light for wall, ceiling or end mounting commercial applications
- Self-Test/Self-Diagnostics are standard
- Impact resistant, flame rated and UV stable white or black thermoplastic housing
- Full lumen output over 90 minutes of battery discharge
- Long-life Lithium Iron Phosphate battery
- Models available without lamp heads to support remote lamp heads



SPECIFICATIONS

APPLICATION

- The EVCHL Series is a high lumen output combination exit and emergency light designed to provide 90 minutes of illumination when primary power is lost
- Apply in large open spaces or higher mounting height applications where high lumen output is required
- Fully adjustable LED lamp heads
- No-head models provide 12 watts to run multiple remotes
- Damp Location Listed for basements or stairwells

CONSTRUCTION

- The EVCHL Series has a flame-rated, UV stable thermoplastic housing with a lightly textured white or black finish
- Includes additional faceplate for single or double-face application
- Lamp heads include die-cast heat dissipating heatsink with impact and scratch resistant UV stabilized thermoplastic
- LED lens are made of acrylic
- Snap-in directional chevrons are field selectable

INSTALLATION

- Backplate includes a Universal mounting template for wall mounting to outlet box
- Ceiling and end mounting uses the supplied canopy to standard 3-1/2" or 4" square or octagonal electrical boxes
- End mount option allows both lamp heads to be installed on one side
- Exit housing snaps to canopy

ILLUMINATION

- The EVCHL is designed for full lumen output across the entire 90 minutes of emergency operation
- Lamp heads are fully adjustable
- Exit illumination is provided by colored diffuser and matching green or red LEDs

COMPLIANCES

- Listed to UL924 Standard, NFPA 101, NFPA 70
- Damp Location Listed Optional
- CEC T20 Compliant

WARRANTY

- LED Lifetime Warranty
- Full 5 year warranty
- LED Lifetime Warranty on Emergency Unit

| KEY DATA | |
|-------------------|---|
| Lamp Color | Cool White, 5000K |
| Total Lamp Output | 6W Lamps, 589 lumens per lamp head, 1178 lumens total |
| Number of Lamps | 2 lamp heads with 3 high-power LEDs per head |
| System Efficacy | 98.16 lm/W |
| Rated Lifecycle | > 100,000hrs or 10 years |
| Input Voltage | 120 or 277VAC, 50 or 60 Hz |



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ORDERING GUIDE

Example: EVHCLURW12-06L

CATALOG # _____

| EVCHL | U | | | 12 | |
|---|--------------------------------|------------------|--------------------|-------------|--|
| Model | Faces | Letter Color | Finish | Capacity | Options |
| EVCHL High Lumen Combination Exit/Emergency Light | U Universal Single/Double Face | R Red G Green | W White B Black | 12 12 Watts | 0 No Lamp-Heads ¹ 06L 6 Watt Lamps |

Accessories

EVHCR2 Indoor Remote



EVODW Outdoor Remote



WGTW Wire Guard
16" H x 20" L x 7 7/8" D



Notes:

- The no-head option(-0) will run 2 each EVHCR2 Indoor remotes, or 4 each EVO double head Outdoor remotes for 90 minutes

ELECTRONICS

Upon failure of the normal utility power, an LED driver is automatically activated to power the emergency LED lamp-heads and EXIT LED's. Upon resumption of normal utility power, the LED driver is turned off, and the battery is recharged through a micro-controller based 3-stage charger. The battery is a maintenance-free Lithium Iron Phosphate (LiFePO) type. The EVCHL Series accepts dual-voltage input of 120 or 277VAC at 50 or 60 Hz. A low voltage battery disconnect (LVD) feature protects the battery from severe damage during prolonged power failures. Manual testing is available at any time using the push-to-test button.

STANDARD FEATURES INCLUDE

- External push-to-test switch and AC-on indicator
- Battery re-charge within 24 hours
- AC Lock-out circuit
- Low voltage battery disconnect

SPECTRON FEATURES

- Self-diagnostics monitors LED status, LED load transfer circuit, battery capacity and charger function and displays any fault detection by means of a flashing code
- Self-Test feature automatically runs a 1 minute test once a month and an alternating 30 or 60 minute test once every 6 months. Multi-color LED indicator provides visible fault detection and charging status
- User initiated 1 or 90-minute system test feature
- 15 minute re-transfer delay
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage)

MAXIMUM POWER CONSUMPTION

| | AC Voltage | Hz. | Amps. | Watts | Power Factor |
|-------|------------|-----|-------|-------|--------------|
| EVHCL | 120 | 60 | 0.11 | 6.5 | 0.5 |
| | 277 | 60 | 0.14 | 7.2 | 0.2 |



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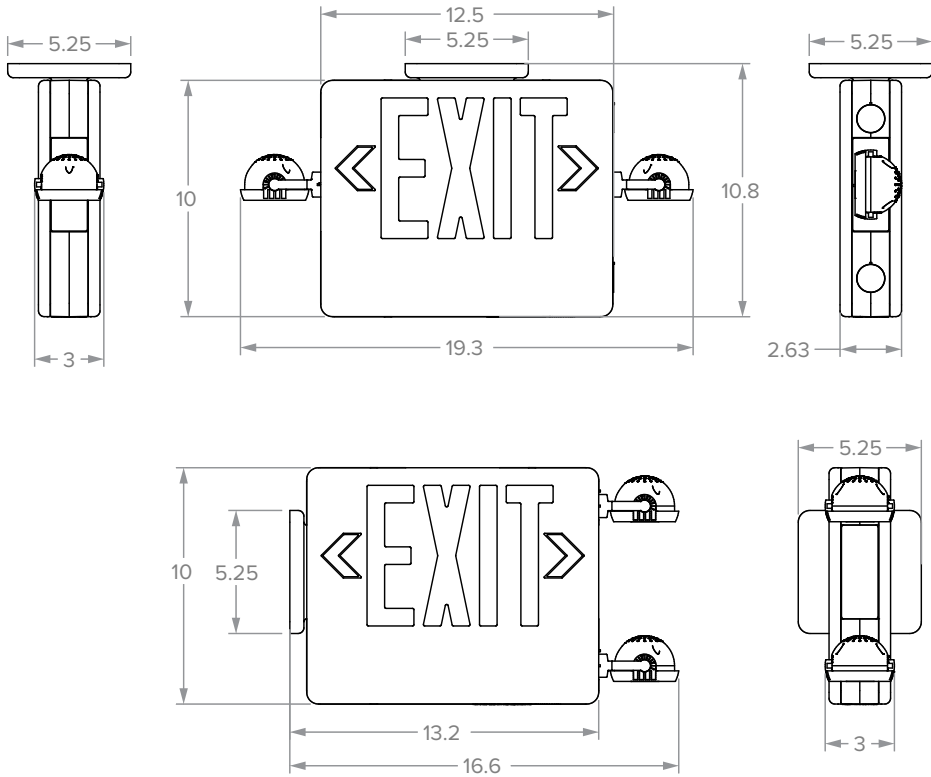
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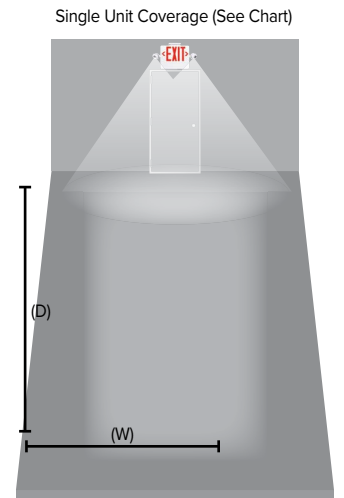
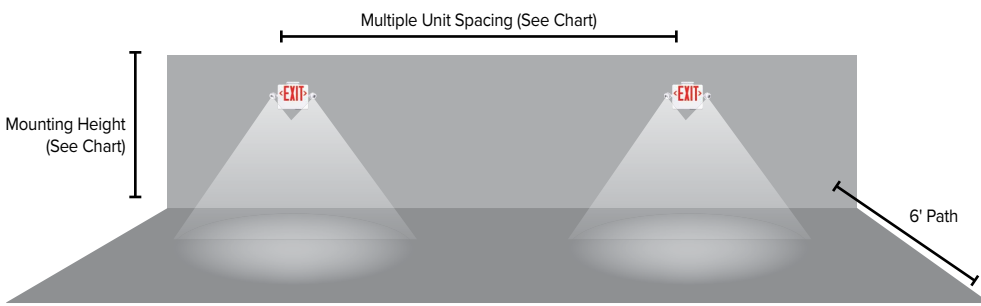
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DIMENSIONS



APPLICATION INFORMATION



*Multiple unit spacing based on 6' path

Industrial Parameters Ceiling Height=30', Reflectance=10/10/10, Ceiling Mount Multiple Unit Spacing, 6' Path

| EVCHL, 696 lumens, 10 watts | | |
|------------------------------|------|-----|
| Mounting Height | 7.5' | 9' |
| Mult. Unit Spacing @1 FC Avg | 85' | 85' |
| Mult. Unit Spacing @1 FC Min | 27' | 29' |

| 1 fc Average | | 1 fc Minimum | |
|--------------|-----------|--------------|-----------|
| Depth (D) | Width (W) | Depth (D) | Width (W) |
| 25' | 10' | 3 | 10' |

Meets Life Safety Code minimum illuminance of 0.1 fc and average illuminance of 1.0 fc. Assumes open space with no obstructions, mounting height of 7.5', ceiling height of 9' and reflectances of 80/50/20. Photometry files available on the Dual-Lite website.