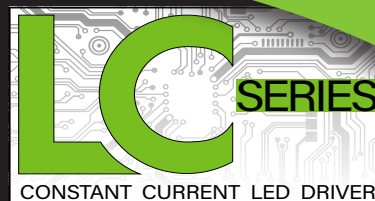


# HATCH LED DRIVERS



## GENERAL INFORMATION

|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
| LED Driver Type           | Constant Current (Class 2)                                       |
| Maximum Wattage           | 16 Watts                                                         |
| Input Voltage             | 120 VAC $\pm$ 10% Dedicated<br>120 - 277 VAC $\pm$ 10% Universal |
| Input Frequency           | 50/60Hz                                                          |
| Total Harmonic Distortion | <20%                                                             |

## CASE STYLE Q: POLYCARBONATE



## ELECTRICAL SPECIFICATIONS

| Watts | Rated Current | Output Voltage | Dimming Type  | Input Voltage | Input Power | Input Current | Power Factor | Efficiency | Hatch Part Number  |
|-------|---------------|----------------|---------------|---------------|-------------|---------------|--------------|------------|--------------------|
| 16W   | 0-10V Dimming |                |               |               |             |               |              |            |                    |
|       | 350mA         | 15-46 VDC      | 0-10V Dimming | 120-277 VAC   | 20W         | 0.19/0.09A    | >0.90        | 83%        | LC16-0350Z-UNV-Q†  |
|       | 500mA         | 10-32 VDC      | 0-10V Dimming | 120-277 VAC   | 20W         | 0.19/0.09A    | >0.90        | 83%        | LC16-0500Z-UNV-Q ‡ |
|       | 700mA         | 10-23 VDC      | 0-10V Dimming | 120-277 VAC   | 20W         | 0.19/0.09A    | >0.90        | 83%        | LC16-0700Z-UNV-Q ‡ |
|       | Phase Dimming |                |               |               |             |               |              |            |                    |
|       | 350mA         | 15-46 VDC      | Phase Dimming | 120 VAC       | 20W         | 0.19A         | >0.90        | 80%        | LC16-0350P-120-Q*  |
|       | 500mA         | 10-32 VDC      | Phase Dimming | 120 VAC       | 20W         | 0.19A         | >0.90        | 80%        | LC16-0500P-120-Q   |
|       | 700mA         | 7-23 VDC       | Phase Dimming | 120 VAC       | 20W         | 0.19A         | >0.90        | 80%        | LC16-0700P-120-Q   |
|       | 1050mA        | 6-15 VDC       | Phase Dimming | 120 VAC       | 20W         | 0.19A         | >0.90        | 80%        | LC16-1050P-120-Q   |

†Class P \*Class 2 US Only

## PRODUCT FEATURES

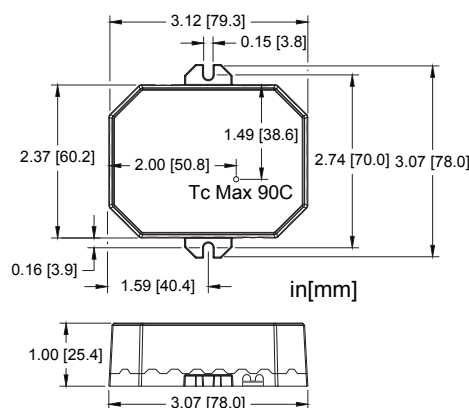
- Short circuit and overload protection
- Suitable for dry and damp locations
- Operating temperature range: -40°C to 90°C (measured at Tcase)
- Surge voltage rating: L-N 2kV, L/N-GND 4kV
- Withstanding Voltage: I/P - O/P 2.8kVDC, 2mA
- Output Current tolerance  $\pm$  5% @ 25°C
- MTBF: 510,000 hrs (0-10V Dimming) @ 40°C ambient case temp  
690,00 hrs (Phase Dimming) @ 40°C ambient case temp
- Inrush Current: <10A Max @230VAC for Universal input models
- 0-10 V dimming range: 10%-100%

## APPROVALS

- UL 8750 recognized component / Class P
- EN61000-3-2
- EMC: Meets FCC47 CFR Part 15 (Class B) consumer limits
- IP66



## MECHANICAL SPECIFICATIONS: CASE STYLE Q



## DIMENSIONS [IN/MM]

|           |             |
|-----------|-------------|
| Length:   | 3.07 [78.0] |
| Mounting: | 2.74 [69.6] |
| Width:    | 3.14 [79.8] |
| Height:   | 1.00 [25.4] |

## WIRING INFORMATION

|          |                                                               |
|----------|---------------------------------------------------------------|
| Input:   | 12", Black (L), White (N) #18AWG                              |
| Output:  | 12", Red (+), Blue (-) #18AWG<br>#22AWG (with Class 2 Output) |
| Dimming: | 12", Purple (+), Grey (-) #22AWG                              |

## PACKAGING INFORMATION

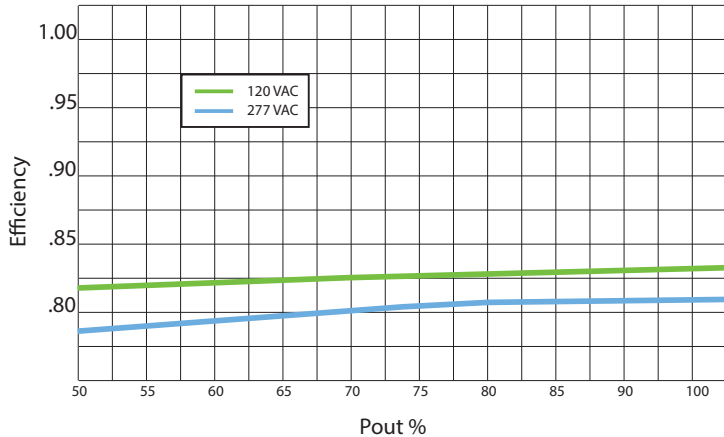
|           |             |
|-----------|-------------|
| Weight:   | 6.4 oz      |
| Quantity: | 50pc/carton |

Specifications subject to change without notice.

### PERFORMANCE CURVES

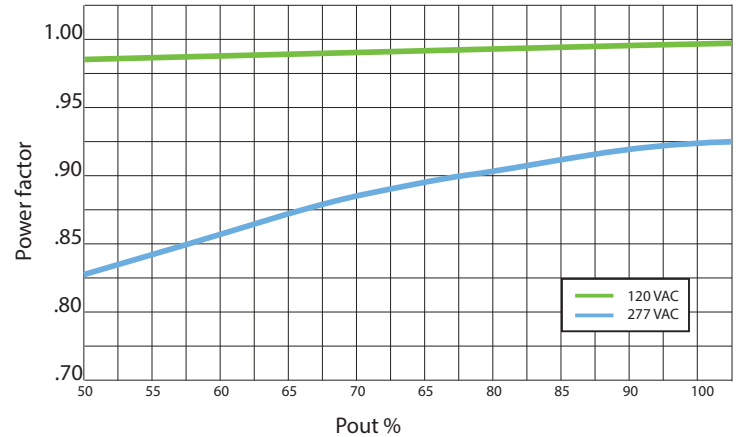
#### Efficiency VS Output Power

Efficiency vs. Output Power - 0-10V Dimming

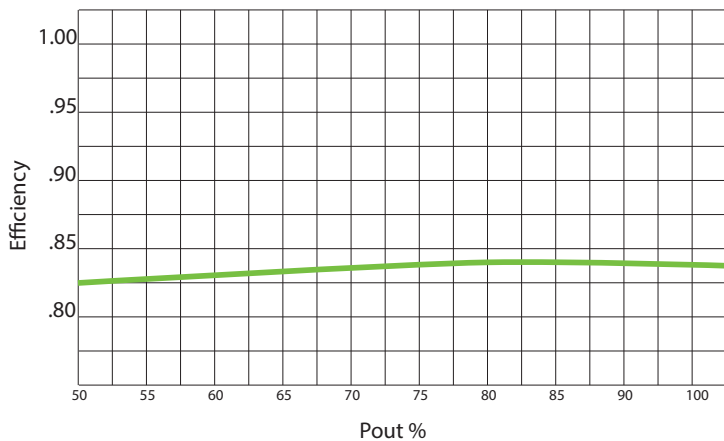


#### Power Factor VS Output Power

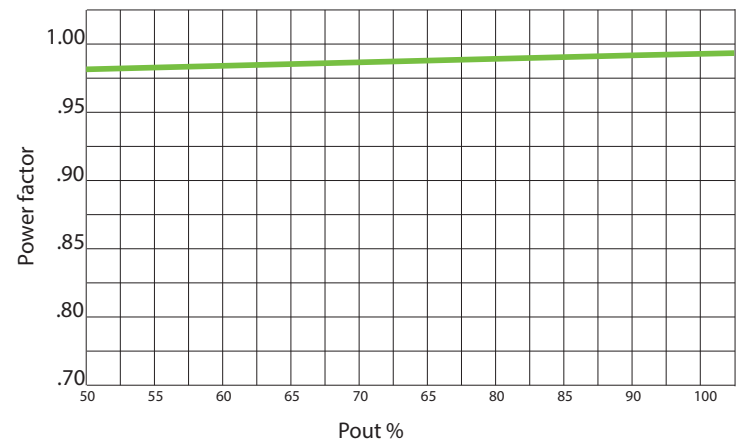
Power Factor vs. Output Power - 0-10V Dimming



Efficiency vs. Output Power - Phase Dimming



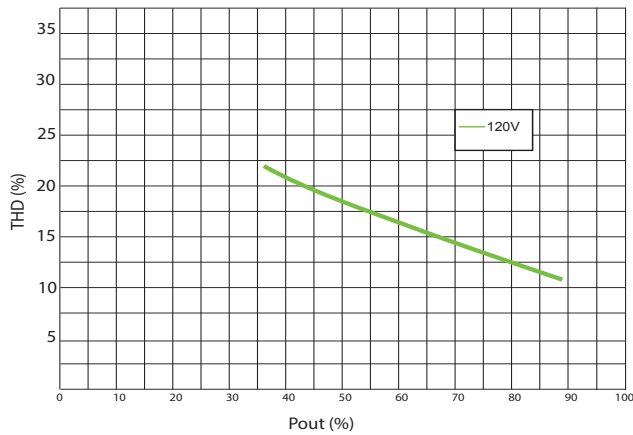
Power Factor vs. Output Power - Phase Dimming



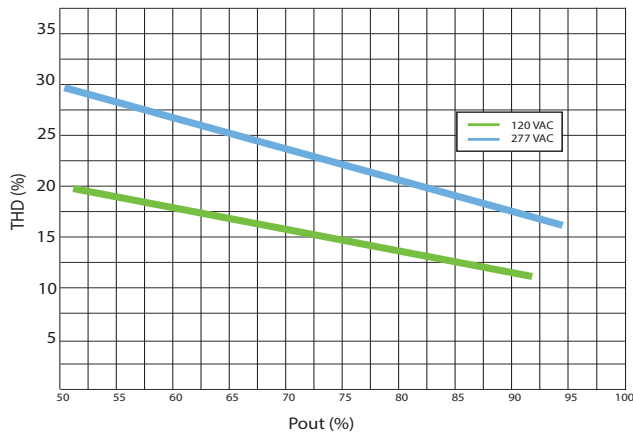
## PERFORMANCE CURVES

### THD VS Output Power

THD vs Output Power - Phase-Dimming

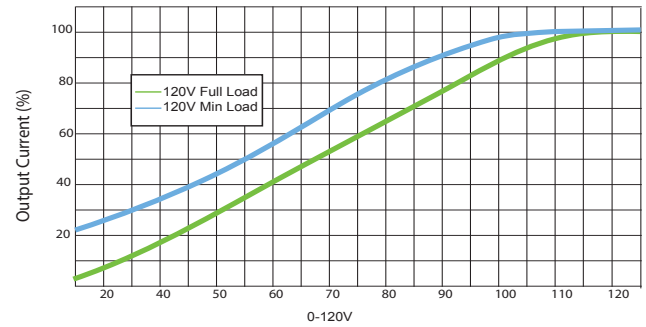


THD vs Output Power - 0-10V Dimming

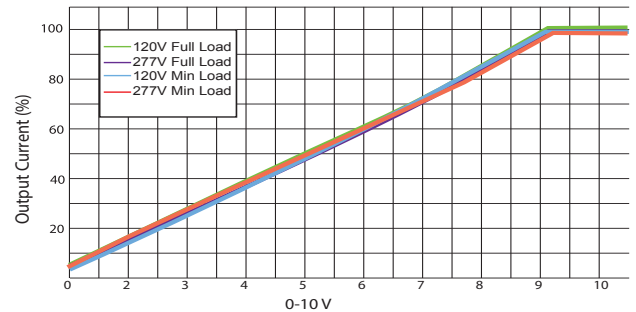


### Dimming Curves

Dimming Curve - Phase Dimming



Dimming Curve - 0-10V Dimming



### Lifetime VS Case Temperature

Lifetime vs. Case Temperature

