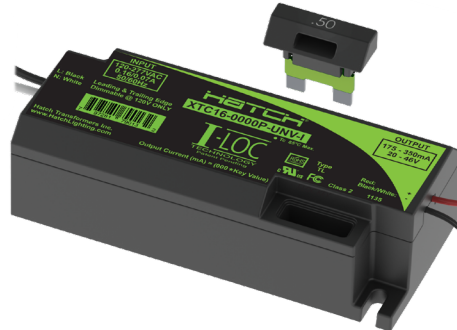


## XTC (PHASE) PROGRAMMABLE

## CASE: XTC POLYCARBONATE

### GENERAL INFORMATION

|                                 |  |
|---------------------------------|--|
| LED Drive Type                  | Programmable Constant Current, Class 2 |
| Input Voltage                   | 120-277 (+/-10%)                       |
| Input Frequency                 | 50/60Hz                                |
| Programming Method              | I-LOC Keys                             |
| Dimming Control                 | Phase Dimming @ 120V                   |
| Dimming Range                   | Dims to Off                            |
| Power Factor @ Full Load        | >0.95%                                 |
| Efficiency @ Full Load          | >80%                                   |
| LED Power Up Time               | <500ms                                 |
| Load Regulation                 | <3%                                    |
| Line Regulation (Max Load)      | <3%                                    |
| Output Over Voltage Protection  | Yes, Auto Recovery                     |
| Output Overload Protection      | Yes, Auto Recovery                     |
| Output Short-Circuit Protection | Yes                                    |
| Over Temperature Protection     | Yes                                    |
| EMI Compliance                  | FCC Part 15 Class B                    |



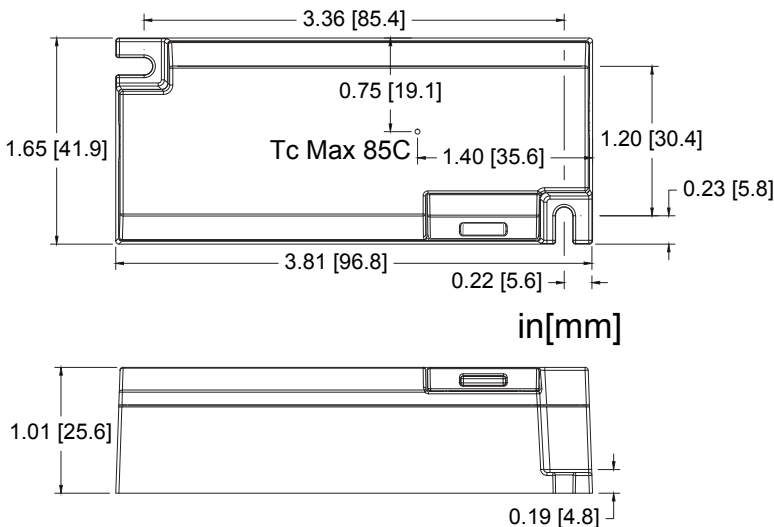
### ENVIRONMENTAL SPECIFICATIONS

|                           |                                     |
|---------------------------|-------------------------------------|
| Minimum Operating Temp.   | -30°C                               |
| Maximum Case Temp. †      | 85°C                                |
| Maximum Storage Temp.     | 70°C                                |
| Maximum Relative Humidity | 85% non-condensing                  |
| Transient Protection      | NEMA SSL1-2010<br>Non-Roadway 2.5kV |
| UL Environment Rating     | Dry & Damp                          |
| Sound Rating              | Class A                             |

†80°C Maximum Case Temperature for Warranty Purposes

### ELECTRICAL SPECIFICATIONS

| Max. Power (W) | Output Voltage (VDC) | Output Current (mA) | Input Current (A) (120/277V) | Part Number       |
|----------------|----------------------|---------------------|------------------------------|-------------------|
| 16W            | 20-46V               | 175-350mA           | 0.16/0.07                    | XTC16-0350P-UNV-I |
| 32W            | 20-46V               | 350-700mA           | 0.32/0.14                    | XTC32-0700P-UNV-I |
| 34W            | 14-32V               | 525-1050mA          | 0.35/0.15                    | XTC34-1050P-UNV-I |



Always confirm fit with a physical sample.  
Specifications subject to change without notice.

### Wiring Information

|         |  |
|---------|--|
| Input:  | 6" # 18AWG<br>Black (L), White (N)     |
| Output: | 6" # 22AWG<br>Red (+), Black/White (-) |

### Packaging Information

|           |              |
|-----------|--------------|
| Weight:   | 0.57 lbs     |
| Quantity: | 50 pc/carton |



For an I-LOC Demo visit:  
<http://www.hatchlighting.com/about-i-loc/>

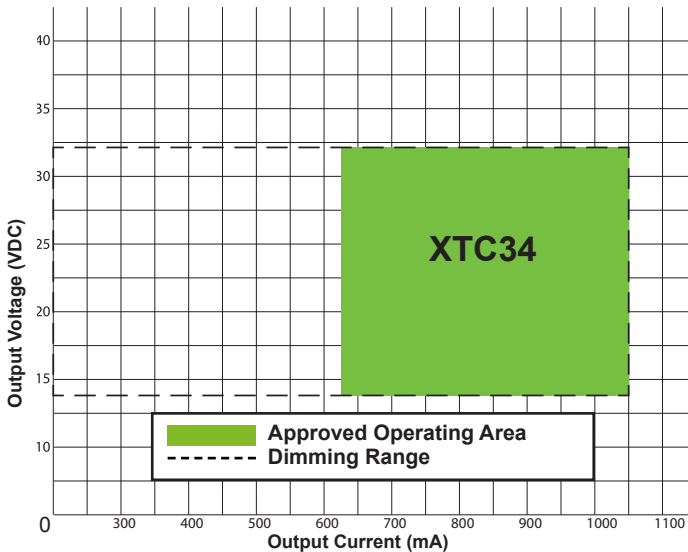
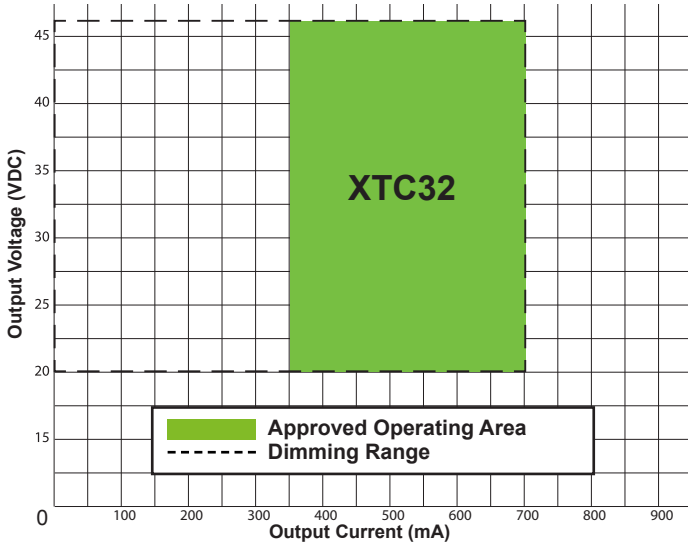
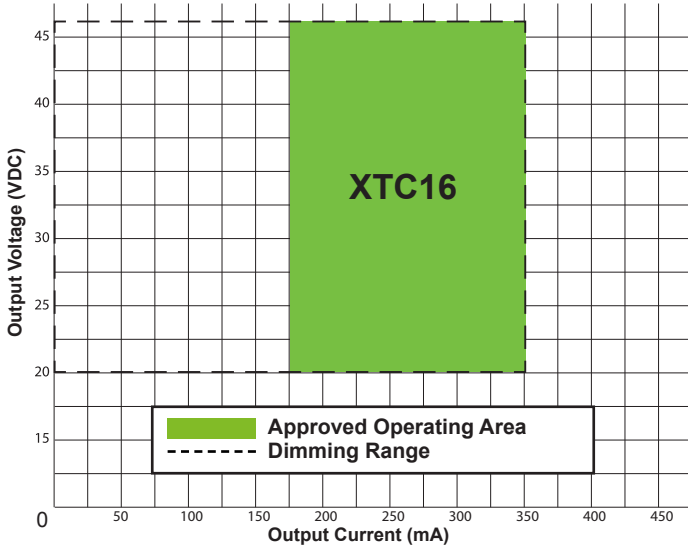
Hatch I-LOC Technology enables quick and easy setting of driver output current with the simple click of a key. Select the appropriate I-LOC key for the desired output current and click it into the driver.

The keys are **Interchangeable** across the Hatch I-LOC LED Driver product family and have a 50% to maximum output range. The 0.28 to 0.48 keys are designed exclusively for the Linear I-LOC family.

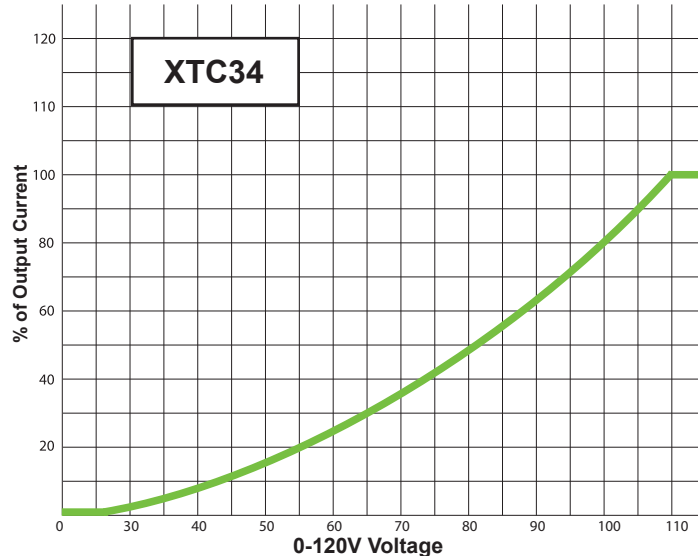
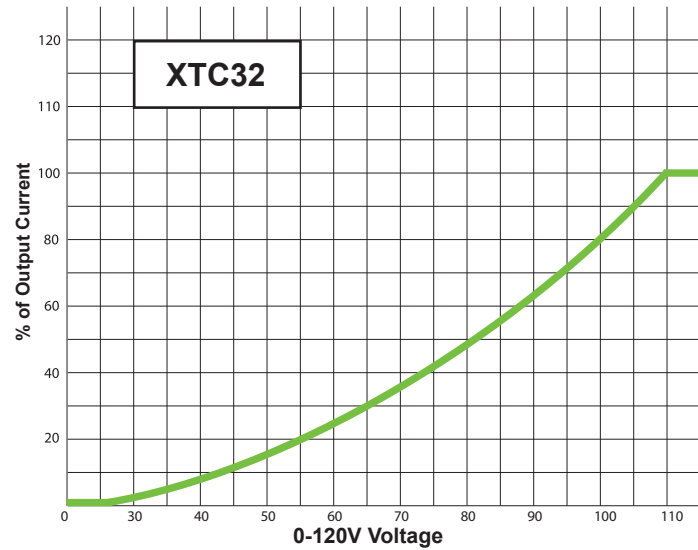
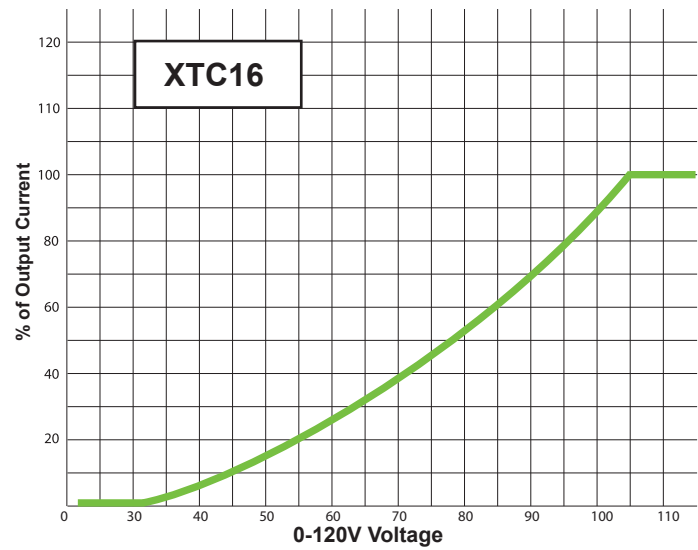
| MODEL        |             | XTC-16-0350P-UNV-I |                   |                | XTC-32-0700P-UNV-I |                   |                | XTC-34-1050P-UNV-I |                   |                |
|--------------|-------------|--------------------|-------------------|----------------|--------------------|-------------------|----------------|--------------------|-------------------|----------------|
| Drive Factor | Part Number | Max Output (mA)    | Voltage Range (V) | Max Output (W) | Max Output (mA)    | Voltage Range (V) | Max Output (W) | Max Output (mA)    | Voltage Range (V) | Max Output (W) |
| 1.00         | XA100       | 350                | 20-46             | 16             | 700                | 20-46             | 32             | 1050               | 14-32             | 34             |
| 0.98         | XB098       | 343                | 20-46             | 16             | 686                | 20-46             | 32             | 1029               | 14-32             | 33             |
| 0.95         | XC095       | 333                | 20-46             | 16             | 665                | 20-46             | 31             | 998                | 14-32             | 32             |
| 0.93         | XD093       | 326                | 20-46             | 15             | 651                | 20-46             | 30             | 977                | 14-32             | 32             |
| 0.90         | XE090       | 315                | 20-46             | 15             | 630                | 20-46             | 29             | 945                | 14-32             | 31             |
| 0.88         | XF088       | 308                | 20-46             | 15             | 616                | 20-46             | 29             | 924                | 14-32             | 30             |
| 0.85         | XG085       | 298                | 20-46             | 14             | 595                | 20-46             | 28             | 893                | 14-32             | 29             |
| 0.83         | XH083       | 291                | 20-46             | 14             | 581                | 20-46             | 27             | 872                | 14-32             | 28             |
| 0.80         | XI080       | 280                | 20-46             | 13             | 560                | 20-46             | 26             | 840                | 14-32             | 27             |
| 0.78         | XJ078       | 273                | 20-46             | 13             | 546                | 20-46             | 26             | 819                | 14-32             | 26             |
| 0.75         | XK075       | 263                | 20-46             | 13             | 525                | 20-46             | 25             | 788                | 14-32             | 26             |
| 0.73         | XL073       | 256                | 20-46             | 12             | 511                | 20-46             | 24             | 767                | 14-32             | 25             |
| 0.70         | XM070       | 245                | 20-46             | 12             | 490                | 20-46             | 23             | 735                | 14-32             | 24             |
| 0.68         | XN068       | 238                | 20-46             | 11             | 476                | 20-46             | 22             | 714                | 14-32             | 23             |
| 0.65         | XO065       | 228                | 20-46             | 11             | 455                | 20-46             | 21             | 683                | 14-32             | 22             |
| 0.63         | XP063       | 221                | 20-46             | 11             | 441                | 20-46             | 21             | 662                | 14-32             | 22             |
| 0.60         | XQ060       | 210                | 20-46             | 10             | 420                | 20-46             | 20             | 630                | 14-32             | 21             |
| 0.58         | XR058       | 203                | 20-46             | 10             | 406                | 20-46             | 19             | 609                | 14-32             | 20             |
| 0.55         | XS055       | 193                | 20-46             | 9              | 385                | 20-46             | 18             | 578                | 14-32             | 19             |
| 0.53         | XT053       | 186                | 20-46             | 9              | 371                | 20-46             | 17             | 557                | 14-32             | 18             |
| 0.50         | XU050       | 175                | 20-46             | 8              | 350                | 20-46             | 16             | 525                | 14-32             | 17             |

Adjusted Output Current Tolerance +/- 3%

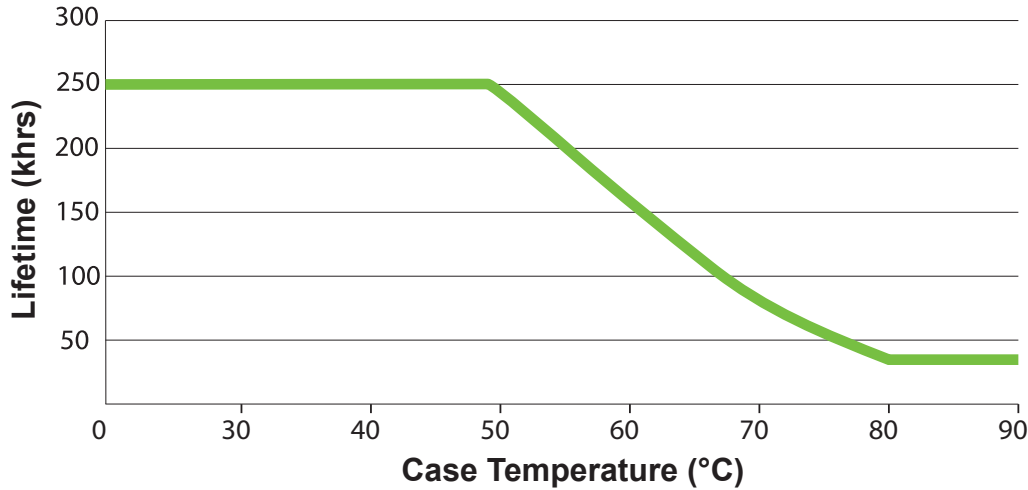
## Operating Range



## Dimming Range



### Lifetime vs Case Temperature (Full Load)



### TL Information

| Product | Key Range | Tref Max | Tref @ 40 °C |
|---------|-----------|----------|--------------|
| XTC16   | 0.50-0.65 | 90°C     | 66°C         |
|         | 0.68-0.80 | 90°C     | 69°C         |
|         | 0.83-1.00 | 89°C     | 77°C         |
| XTC32   | 0.50-0.65 | 82°C     | 52°C         |
|         | 0.68-0.80 | 90°C     | 58°C         |
|         | 0.83-1.00 | 78°C     | 63°C         |
| XTC34   | 0.50-0.65 | 90°C     | 66°C         |
|         | 0.68-0.80 | 86°C     | 67°C         |
|         | 0.83-1.00 | 89°C     | 76°C         |

### Inrush Characteristics

| Product | Input Voltage Vin (vrms) | Ipk (A) | T 50%pk (µS) |
|---------|--------------------------|---------|--------------|
| XTC16   | 120                      | 0.58    | 59           |
|         | 277                      | 1.18    | 52           |
| XTC32   | 120                      | 0.88    | 50           |
|         | 277                      | 1.36    | 94           |
| XTC34   | 120                      | 0.74    | 63           |
|         | 277                      | 1.28    | 95           |

For an I-LOC Demo visit: <http://www.hatchlighting.com/about-i-loc/>

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