



# D400C16UNVSL-GA

## 400mA Selectable Output Current LED Driver

- 400/350/300/250mA Selectable Output Current
- 0-10V dimming to 5% with dim-to-off
- Class B EMI at 120Vac input



### Performance

|                       |                                      |
|-----------------------|--------------------------------------|
| Input Voltage         | 120 ~ 277 Vac                        |
| Input Current Max     | 0.22 / 120V 0.07 / 277V              |
| Input Power Max       | 19.3W                                |
| Input Frequency       | 50 - 60 (Hz)                         |
| Power Factor          | > 0.95 @ max load                    |
| THD max               | < 20% @ max load                     |
| Output Voltage        | 24V to 42V                           |
| Max. Output Current   | 250/300/350/400mA                    |
| Min. Dimming Current  | 5% of selected Iout                  |
| Max. Output Power     | 16.8W                                |
| Standby Power         | < 0.25W @ 120Vac<br>< 0.75W @ 277Vac |
| Line Regulation       | ±5 %                                 |
| Load Regulation       | ±5 %                                 |
| Output Current Ripple | < 30% (Pk-Pk/avg)                    |
| Inrush Current*       | 120V: 16A / 20uS                     |
| Peak / >50% Duration  | 277V: 41A / 20uS                     |
| LED Start Up Time     | < 500mS                              |

\* Source impedance per NEMA 410

### Environmental

|                      |  |
|----------------------|--|
| EMI and RFI          | FCC part 15 (Class B) at 120V<br>FCC part 15 (Class A) at 277V |
| Operating Temp.      | -40°C to 40°C / -40°F to 104°F                                 |
| Storage Temperature  | -40°C to 75°C / -40°F to 167°F                                 |
| tc                   | 75°C max for warranty<br>90°C max for UL                       |
| Protection Rating    | UL Dry & Damp  |
| Transient Protection | IEEE C62.41 2.5kV  |

### Physical

|   |  |
|---|--|
| Length  | 3.74 in (95 mm)                              |
| Width   | 1.57 in (40 mm)                              |
| Height  | 1.00 in (25.4 mm)                            |
| Mounting Length                               | 3.35 in (85 mm)<br>w/ 1.18 in (30 mm) offset |
| Weight (lbs)                                  | 0.36 lbs                                     |
| Lead Lengths                                  |  |
| Blk, Wht<br>18AWG / 105°C / 600V              | 5.90 in (150 mm)                             |
| Red(LED+), Blue(LED-)<br>18AWG / 105°C / 300V | 5.90 in (150 mm)                             |
| Vio(Dim+), Gray(Dim-)<br>22AWG / 105°C / 300V | 10.63 in (270 mm)                            |

### Protection

Over Voltage, Short Circuit, Over Temp

### Safety:

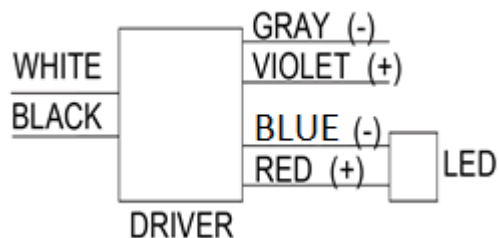
UL 8750 & CSA 250.13  
UL Class P



### Ordering Information

| Order Number        | Description | Qty/Carton |
|---------------------|-------------|------------|
| D400C16UNVSL-GA030C | 400mA 16W   | 30         |

### Wiring Diagram:

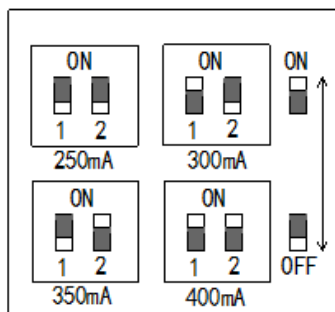


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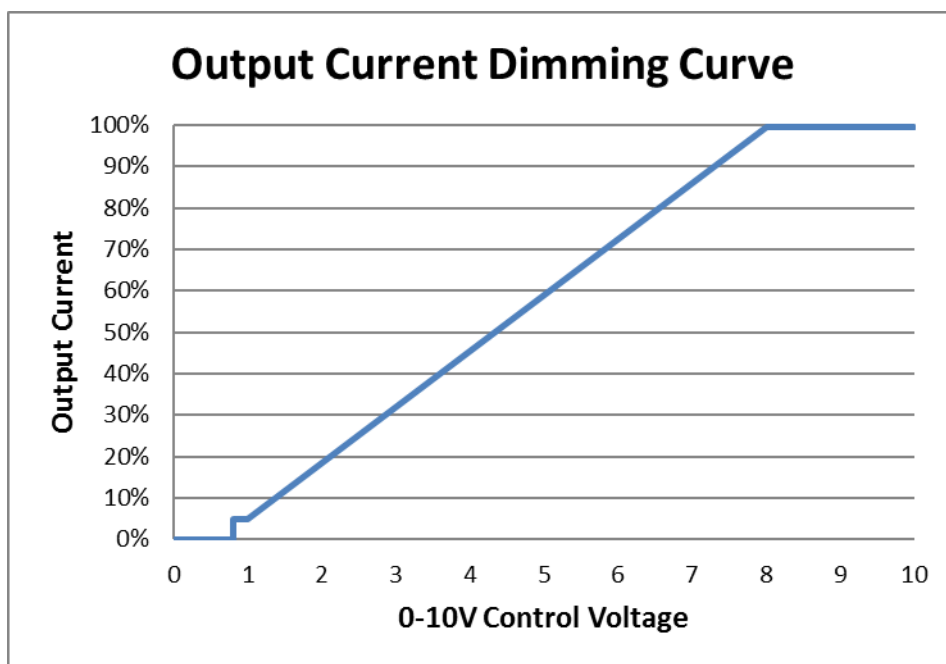


## Selectable Output Current



| Switch 1 | Switch 2 | Output Current  |
|----------|----------|-----------------|
| On       | On       | 400mA (default) |
| Off      | On       | 350mA           |
| On       | Off      | 300mA           |
| Off      | Off      | 250mA           |

## 0-10V Dimming



| Control Voltage | Light Output |
|-----------------|--------------|
| 8V              | 100%         |
| 1V              | 5%           |
| 0.8V            | Turn-Off     |
| 1V              | Turn-On      |

### 0-10V Analog Dimming Interface

- Analog 0 to 10 vDC Voltage Control
- Use Violet (+) & Gray (-) for connection to 0-10vDC.
- 10v = maximum output, 0v = dim-to-off
- Wiring Violet & Gray together provides min. light output.
- Capping Violet & Gray separately provides 100% light output.
- 0-10V interface can be wired as a Class 1 or Class 2 Circuit.
- Driver will source a maximum of 160uA for control needs.
- Controller must sink current from the 0-10V control leads.

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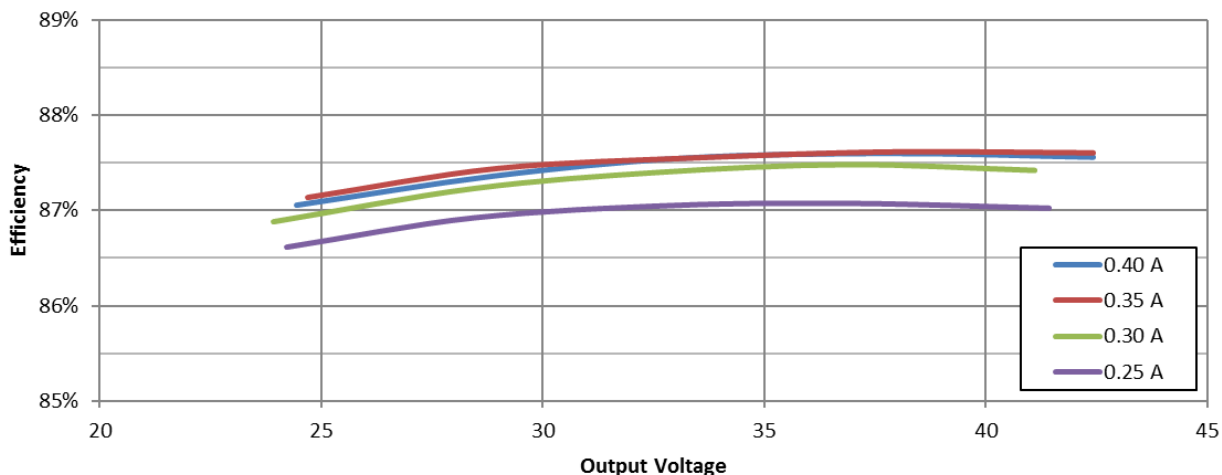
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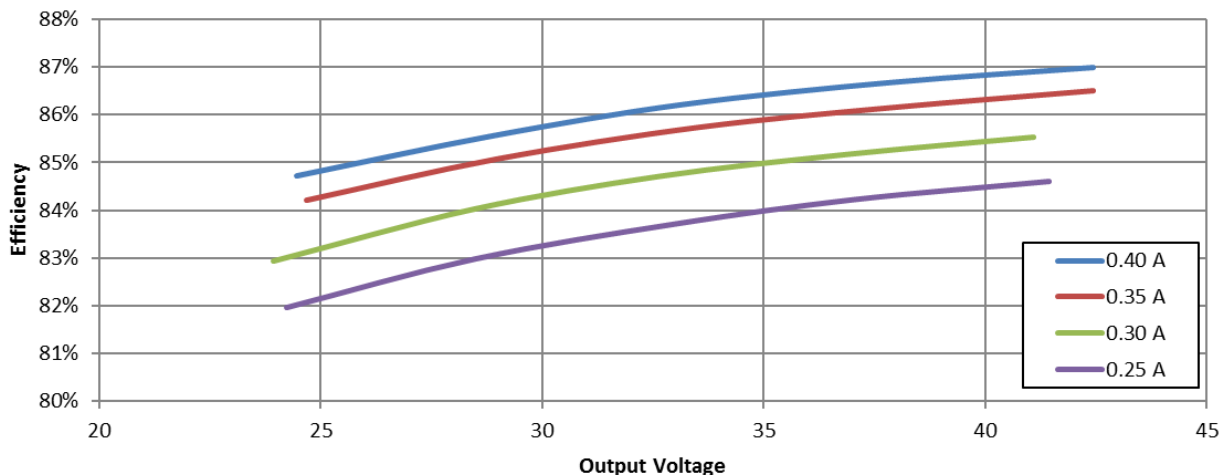
## Performance: Efficiency

Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.

### Efficiency Vs. Output Voltage, 120V In



### Efficiency Vs. Output Voltage, 277V In

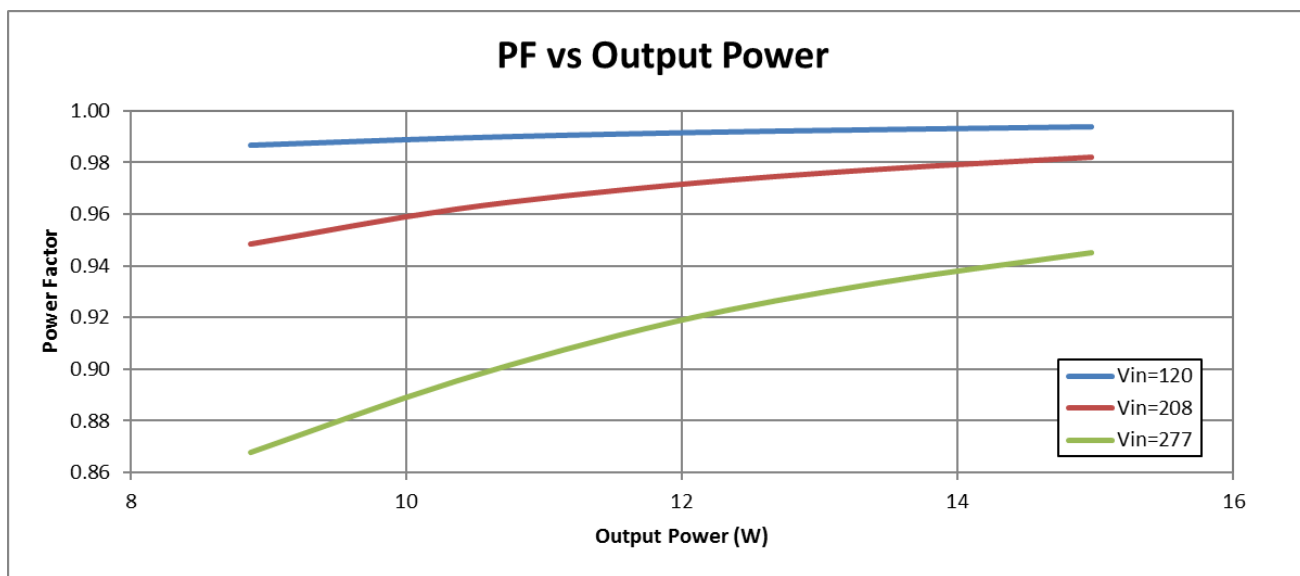
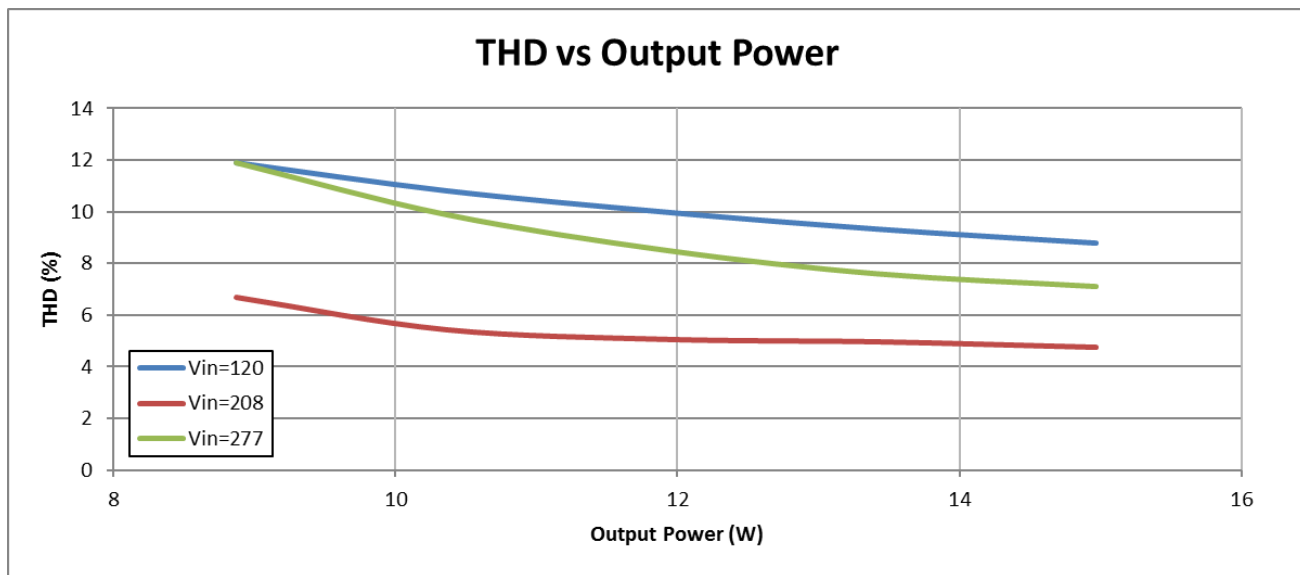


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## Performance: Total Harmonic Distortion, & Power Factor

Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.



Output power based on maximum rated output current and varying load voltages.



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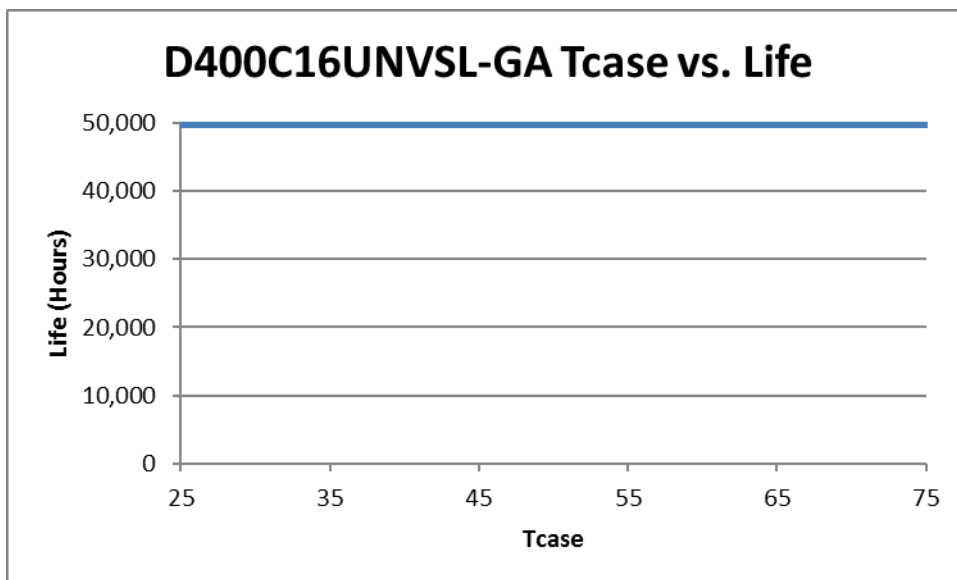


| Transient Protection                        |                         |
|---|-------------------------|
| Transient                                   | Differential Mode (L-N) |
| IEEE C62.41 100kHz Ring Wave (200A maximum) | > 2.5kV                 |

| Isolation |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|
| Isolation | Input     | Output    | 0-10V     | Enclosure |
| Input     | -         | 2xU + 1kV | 2xU + 1kV | 2xU + 1kV |
| Output    | 2xU + 1kV | -         | 2xU + 1kV | 700V      |
| 0-10V     | 2xU + 1kV | 2xU + 1kV | -         | 2xU + 1kV |
| Enclosure | 2xU + 1kV | 700V      | 2xU + 1kV | -         |

U = Max Input Voltage

## Driver Lifetime vs. Driver Case Temperature



The Data curve provided predicts the LED Driver life based on the case temperature measured at the Tc location identified on the label or specification sheet. The Telecordia SR-332 standard is used to generate the prediction curves.



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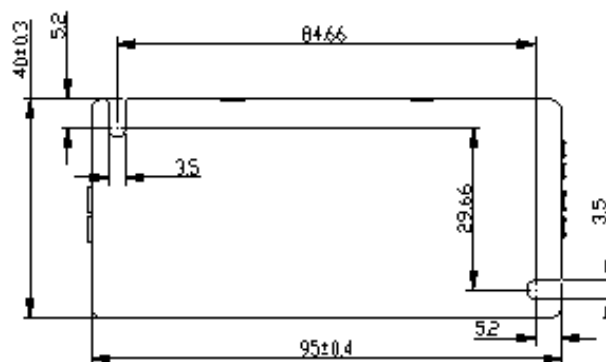


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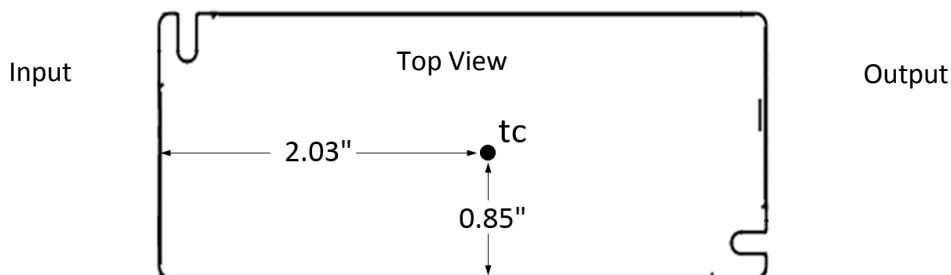
## Dimensional Diagram:



|                 |  |
|-----------------|--|
| Length          | 3.74 in (95 mm)                              |
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## Tc Location:



FCC Statement: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Warranty:

Universal Lighting Technologies warrants to the purchaser that each power supply will be free from defects in material or workmanship for a period of 5 years from the date of manufacture when properly installed per instructions and under normal operating conditions of use. Call 1-800-225-5278 for technical assistance.



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