

# LED Driver

## USCO

# USCO

### Highlights & Features

- Constant current design
- Universal AC input voltage from 110-277Vac
- High efficiency up to 95%
- Wide operating temperature range -40°C to +60°C
- With IP66/IP67 protection from most outdoor applications
- Build-in Active PFC and confirm to harmonic current IEC/EN 61000-3-2, Class C
- Adjustable constant current level through programmable tool
- Common mode 6kV and differential mode 6kV surge immunity
- Suitable for Dry / Damp / Wet location
- 1-10V dimming & DALI available



### Safety Standards



CB Certified for worldwide use

**Model Number:** USCO-□□□□□□□A

### Dimensions (L x W x H):

|                                                                                          |                                             |
|------------------------------------------------------------------------------------------|---------------------------------------------|
| USCO-040070DB                                                                            | 161 x 50 x 34 mm (6.34 x 1.97 x 1.34 inch ) |
| USCO-075070DA                                                                            | 174 x 60 x 34 mm (6.85 x 2.36 x 1.34 inch)  |
| USCO-100070FA, USCO-100105FA, USCO-100070DA, USCO-100105DA                               | 251 x 60 x 34 mm (9.88 x 2.36 x 1.34 inch)  |
| USCO-150070FA, USCO-150105FA, USCO-150070DA, USCO-150105DA, USCO-150070LA, USCO-150105LA | 248 x 68 x 37 mm (9.76 x 2.68 x 1.46 inch)  |
| USCO-210140DA                                                                            | 240 x 100 x 38 mm (9.45 x 3.94 x 1.50 inch) |

### General Description

Delta LED drivers come in different series to suit different application needs. The USCO Pro series features program output current level. All the models come in full corrosion resistance aluminum casing and major international safety certifications. USCO Pro series offers the capability to achieve different level of LED brightness via built-in 0-10V dimming function to meet various application and energy optimization needs. The products are designed and rigorously tested to work with various outdoor LED lighting conditions. Featuring high surge immunity (CM: 6kV, DM: 6kV) and complying to IP66/IP67 make Delta USCO Pro series an essential part of an energy efficient LED lighting power solution for both indoor and outdoor applications.

### Model Information

#### USCO LED Driver

| Model Number  | Input Voltage Range                    | Rated Output Voltage | Rated Output Current | Rated Output Power | Control |
|---------------|----------------------------------------|----------------------|----------------------|--------------------|---------|
| USCO-040070DB | 110-277Vac Typical<br>99-305Vac Range  | 28-54Vdc             | 700mA                | 40W                | 1-10V   |
| USCO-075070DA |                                        | 54-107Vdc            | 700mA                | 75W                | 1-10V   |
| USCO-100070FA |                                        | 86-143Vdc            | 700mA                | 100W               | N/A     |
| USCO-100105FA |                                        | 57-96Vdc             | 1050mA               | 100W               | N/A     |
| USCO-100070DA |                                        | 86-143Vdc            | 700mA                | 100W               | 1-10V   |
| USCO-100105DA |                                        | 57-96Vdc             | 1050mA               | 100W               | 1-10V   |
| USCO-150070FA |                                        | 107-214Vdc           | 700mA                | 150W               | N/A     |
| USCO-150105FA |                                        | 72-143Vdc            | 1050mA               | 150W               | N/A     |
| USCO-150070DA |                                        | 107-214Vdc           | 700mA                | 150W               | 1-10V   |
| USCO-150105DA |                                        | 72-143Vdc            | 1050mA               | 150W               | 1-10V   |
| USCO-150070LA |                                        | 107-214Vdc           | 700mA                | 150W               | DALI    |
| USCO-150105LA |                                        | 72-143Vdc            | 1050mA               | 150W               | DALI    |
| USCO-210140DA | 120-277Vac Typical<br>108-305Vac Range | 75-150Vdc            | 1400mA               | 210W               | 1-10V   |

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### Model Numbering

| US                                   | C                   | O       | - | □□□□                                                                              | □□□□                                                               | □                             | A                                     |
|--------------------------------------|---------------------|---------|---|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------|---------------------------------------|
| Safety Approval<br>– UL, ENEC,<br>CE | Constant<br>current | Outdoor |   | Rated Output Power<br>040: 40W<br>075: 75W<br>100: 100W<br>150: 150W<br>210: 210W | Rated Output Current<br>070 – 70mA<br>105 – 1050mA<br>140 – 1400mA | F: Fix<br>D: 1-10V<br>L: DALI | Variable<br>A or B–<br>Delta Standard |

### Specifications

| Model Number | USCO-040070DB | USCO-075070DA | USCO-100070FA<br>/DA | USCO-100105FA<br>/DA | USCO-150070FA<br>/DA/LA | USCO-150105FA<br>/DA/LA | USCO-210140DA |
|--------------|---------------|---------------|----------------------|----------------------|-------------------------|-------------------------|---------------|
|--------------|---------------|---------------|----------------------|----------------------|-------------------------|-------------------------|---------------|

### Input Ratings / Characteristics

|                                                         |                                                                                                                                                                                                                                                                    |                 |                 |                  |                  |                  |                  |                  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|
| Normal Input Voltage                                    | 110-277Vac                                                                                                                                                                                                                                                         |                 |                 |                  |                  |                  |                  | 120-277Vac       |
| Input Voltage Range                                     | 99-305Vac                                                                                                                                                                                                                                                          |                 |                 |                  |                  |                  |                  | 108-305Vac       |
| Normal Input Frequency                                  | 50-60Hz                                                                                                                                                                                                                                                            |                 |                 |                  |                  |                  |                  |                  |
| Input Frequency Range                                   | 47-63Hz                                                                                                                                                                                                                                                            |                 |                 |                  |                  |                  |                  |                  |
| Max. Input Current                                      | 110Vac                                                                                                                                                                                                                                                             | 0.44A           | 0.85A           | 1.2A             | 1.2A             | 1.6A             | 1.6A             | 2.05A@120Vac     |
| Efficiency <sup>1)</sup>                                | 230Vac                                                                                                                                                                                                                                                             | 89%             | 92%             | 90%              | 90%              | 91%              | 91%              | 93%              |
| Inrush Current<br>(Apk / 50% - $\mu$ S @<br>Cold Start) | 277Vac                                                                                                                                                                                                                                                             | 40A/150 $\mu$ S | 70A/150 $\mu$ S | 130A/150 $\mu$ S | 130A/150 $\mu$ S | 130A/150 $\mu$ S | 130A/150 $\mu$ S | 200A/150 $\mu$ S |
| Max. no. of LED<br>Drivers circuit<br>breaker at 230Vac | B16                                                                                                                                                                                                                                                                | 21              | 12              | 6                | 6                | 6                | 6                | 4                |
|                                                         | C16                                                                                                                                                                                                                                                                | 36              | 20              | 11               | 11               | 11               | 11               | 7                |
| Power Factor                                            | 70%-Full Load: > 0.9 @ 120- 277Vac for USCO-040070DB,<br>60%-Full Load: > 0.9 @ 120- 277Vac for USCO-075070DA, USCO-100070FA/DA, USCO-100105FA/DA<br>50%-Full Load: > 0.9 @ 120- 277Vac for USCO-040070DB, USCO-150070FA/DA/LA, USCO-150105FA/DA/LA, USCO-210140DA |                 |                 |                  |                  |                  |                  |                  |
| Total Harmonic Distortion                               | 70%-Full Load: THD < 20% @ 120- 277Vac for USCO-075070DA,USCO-040070DB<br>60%-Full Load: THD < 20% @ 120- 277Vac for USCO-100070FA/DA, USCO-100105FA/DA<br>50%-Full Load: THD < 20% @ 120- 277Vac for, USCO-150070FA/DA/LA, USCO-150105FA/DA/LA, USCO-210140DA     |                 |                 |                  |                  |                  |                  |                  |
| Leakage Current                                         | < 0.5mA rms & < 0.7mA peak @ 277Vac                                                                                                                                                                                                                                |                 |                 |                  |                  |                  |                  |                  |
| Standby Power                                           | 0.5W @ Dim to off, 230Vac for DALI series                                                                                                                                                                                                                          |                 |                 |                  |                  |                  |                  |                  |

1) 100% Load (typical) and tested after 30 minutes warm up.

### Output Ratings / Characteristics

|                             |                                                                                                        |           |           |          |            |           |           |
|-----------------------------|--------------------------------------------------------------------------------------------------------|-----------|-----------|----------|------------|-----------|-----------|
| Output Voltage Range        | 28-54Vdc                                                                                               | 54-107Vdc | 86-143Vdc | 57-96Vdc | 107-214Vdc | 72-143Vdc | 75-150Vdc |
| Max. No Load Output Voltage | 60Vrms                                                                                                 | 120Vrms   | 165Vrms   | 115Vrms  | 250Vrms    | 172Vrms   | 170Vrms   |
| Output Power Range          | 40W                                                                                                    | 75W       | 100W      | 100W     | 150W       | 150W      | 210W      |
| Rated Output Current        | 700mA                                                                                                  | 700mA     | 700mA     | 1050mA   | 700mA      | 1050mA    | 1400mA    |
| Current Accuracy            | ± 5% (@ Typical output current range)                                                                  |           |           |          |            |           |           |
| Line Regulation             | ± 3% for USCO-040070DB) , ± 1% for USCO-075070DA/USCO-210140DA) , ± 2% for others @ 120-277Vac input , |           |           |          |            |           |           |
| Load Regulation             | ± 3% (@ Min-Max output voltage)                                                                        |           |           |          |            |           |           |
| Output Current LF Ripple    | 5% (ripple = peak-average/average) at full load (<100Hz)                                               |           |           |          |            |           |           |
| Start-up Time               | 500ms~1000ms @ 110-277Vac (full load & Fix/Dim series)<br>1100mS @230Vac (full load & DALI series)     |           |           |          |            |           |           |

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| Model Number | USCO-040070DB | USCO-075070DA | USCO-100070FA<br>/ DA | USCO-100105FA<br>/ DA | USCO-150070FA<br>/ DA / LA | USCO-150105FA<br>/ DA / LA | USCO-210140DA |
|--------------|---------------|---------------|-----------------------|-----------------------|----------------------------|----------------------------|---------------|
|--------------|---------------|---------------|-----------------------|-----------------------|----------------------------|----------------------------|---------------|

### Mechanical

|                                       |                                               |                                   |                                   |                                   |                                                |                                   |                                    |
|---------------------------------------|-----------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------------------|-----------------------------------|------------------------------------|
| Casing                                | Aluminum, Color : Natural                     |                                   |                                   |                                   |                                                |                                   |                                    |
| Dimensions (L x W x H) [mm]<br>[inch] | 161.0 * 50.0*34.0<br>6.34*1.97*1.34           | 174.0*60.0*34.0<br>6.85*2.36*1.34 | 251.0*60.0*34.0<br>9.88*2.36*1.34 | 251.0*60.0*34.0<br>9.88*2.36*1.34 | 248.0*68.0*37.0<br>9.76*2.68*1.46              | 248.0*68.0*37.0<br>9.76*2.68*1.46 | 240.0*100.0*38.0<br>9.45*3.94*1.50 |
| Unit Weight [kg]/[lb]                 | 0.54/ 1.19                                    | 0.67/ 1.48                        | 1.10/ 2.43                        | 1.10/ 2.43                        | 1.16/ 2.56                                     | 1.16/ 2.56                        | 1.67/ 3.68                         |
| Cooling System                        | Convection                                    |                                   |                                   |                                   |                                                |                                   |                                    |
| Input Cable :                         | Line: Brown, Neutral: Blue, PE: Yellow/Green, |                                   |                                   |                                   |                                                |                                   |                                    |
|                                       | Cable Length 300mm                            |                                   | Cable Length 380mm                |                                   |                                                |                                   | Cable Length 500mm                 |
| Output Cable :                        | Positive: Brown, Negative: Blue,              |                                   |                                   |                                   |                                                |                                   |                                    |
|                                       | Cable Length 300mm                            |                                   |                                   |                                   |                                                | Cable Length 500mm                |                                    |
| Dimming Cable :                       | Dim(+): Violet, Dim(-): Gray,                 |                                   |                                   |                                   |                                                |                                   |                                    |
|                                       | Cable Length 300mm                            |                                   |                                   |                                   |                                                | Cable Length 500mm                |                                    |
| DALI Cable :                          | N/A                                           |                                   |                                   |                                   | DALI1: Violet, DALI2: Gray, Cable Length 300mm |                                   | N/A                                |
| Noise (30cm distance)                 | Sound Pressure Level (SPL) < 24dBA            |                                   |                                   |                                   |                                                |                                   |                                    |

### Environment

|                          |           |                               |                |
|--------------------------|-----------|-------------------------------|----------------|
| Ambient Temperature      | Operating | -40°C to +60°C                | -40°C to +55°C |
|                          | Storage   | -40°C to +85°C                |                |
| Maximum Case Temperature |           | +85°C                         |                |
| Relative Humidity        | Operating | 10 to 85% RH (Non-Condensing) |                |
|                          | Storage   | 5 to 95% RH (Non-Condensing)  |                |
| Environmental Locations  |           | Dry / Damp / Wet              |                |

### Protections

|                                   |                                                  |         |         |         |         |         |         |
|-----------------------------------|--------------------------------------------------|---------|---------|---------|---------|---------|---------|
| Over Voltage                      | 60Vrms                                           | 120Vrms | 165Vrms | 115Vrms | 250Vrms | 172Vrms | 170Vrms |
|                                   | Auto-Recovery when the fault is removed          |         |         |         |         |         |         |
| Overload / Overcurrent            | Auto-Recovery when the fault is removed          |         |         |         |         |         |         |
| Short Circuit                     | Auto-Recovery when the fault is removed          |         |         |         |         |         |         |
| Over Temperature                  | Auto-Recovery when the fault is removed          |         |         |         |         |         |         |
| Ingress Protection Classification | IP66/IP67                                        |         |         |         |         |         |         |
| Suitable for Luminaires Class     | Class I. Insulation Class according to IEC 60598 |         |         |         |         |         |         |

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| Model Number | USCO-040070DB | USCO-075070DA | USCO-100070FA<br>/ DA | USCO-100105FA<br>/ DA | USCO-150070FA<br>/ DA / LA | USCO-150105FA<br>/ DA / LA | USCO-210140DA |
|--------------|---------------|---------------|-----------------------|-----------------------|----------------------------|----------------------------|---------------|
|--------------|---------------|---------------|-----------------------|-----------------------|----------------------------|----------------------------|---------------|

### Reliability Data

|               |                                                                                       |       |       |       |       |       |       |
|---------------|---------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|
| Lifetime      | 50,000 hours at case temp. tc & full load.<br>Refer to "Lifetime VS Case Temperature" |       |       |       |       |       |       |
| Lifetime @ tc | +80°C                                                                                 | +75°C | +85°C | +85°C | +85°C | +85°C | +75°C |

### Safety Standards / Directives

|                    |                                                                                                                                                         |               |              |        |       |  |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|--------|-------|--|
| Electrical Safety  | IEC 61347-1, IEC 61347-2-13 (independent)<br>EN 61347-1, EN 61347-2-13<br>UL 8750, type "HL" & type "TL"<br>CSA C22.2<br>SELV for 40W,75W<br>CE<br>ENEC |               |              |        |       |  |
| CE                 | In conformance with EMC Directive and Low Voltage Directive                                                                                             |               |              |        |       |  |
| Material and Parts | RoHS Directive 2011/65/EU Compliant                                                                                                                     |               |              |        |       |  |
| Galvanic Isolation |                                                                                                                                                         | Mains (Input) | Earth (Case) | Output | DIM ± |  |
| USCO-040070DB      | Mains (Input)                                                                                                                                           | N/A           | 3750V        | 3750V  | N/A   |  |
|                    | Earth (Case)                                                                                                                                            | 3750V         | N/A          | 1500V  | N/A   |  |
|                    | Output                                                                                                                                                  | 3750V         | 1500V        | N/A    | 1875V |  |
|                    | DIM ±                                                                                                                                                   | N/A           | N/A          | 1875V  | N/A   |  |
| Galvanic Isolation |                                                                                                                                                         | Mains (Input) | Earth (Case) | Output | DIM ± |  |
| USCO-075070DA      | Mains (Input)                                                                                                                                           | N/A           | 1500V        | 3750V  | N/A   |  |
|                    | Earth (Case)                                                                                                                                            | 1500V         | N/A          | 1500V  | N/A   |  |
|                    | Output                                                                                                                                                  | 3750V         | 1500V        | N/A    | 2250V |  |
|                    | DIM ±                                                                                                                                                   | N/A           | N/A          | 2250V  | N/A   |  |
| Galvanic Isolation |                                                                                                                                                         | Mains (Input) | Earth (Case) | Output | DIM ± |  |
| USCO-100070FA      | Mains (Input)                                                                                                                                           | N/A           | 3750V        | 3750V  | N/A   |  |
| USCO-100105FA      | Earth (Case)                                                                                                                                            | 3750V         | N/A          | 3750V  | N/A   |  |
| USCO-100070DA      | Output                                                                                                                                                  | 3750V         | 3750V        | N/A    | 1875V |  |
| USCO-100105DA      | DIM ±                                                                                                                                                   | N/A           | N/A          | 1875V  | N/A   |  |
| Galvanic Isolation |                                                                                                                                                         | Mains (Input) | Earth (Case) | Output | DIM ± |  |
| USCO-150070FA      | Mains (Input)                                                                                                                                           | N/A           | 3750V        | 3750V  | N/A   |  |
| USCO-150105FA      | Earth (Case)                                                                                                                                            | 3750V         | N/A          | 3000V  | N/A   |  |
| USCO-150070DA      | Output                                                                                                                                                  | 3750V         | 3000V        | N/A    | 3000V |  |
| USCO-150105DA      | DIM ±                                                                                                                                                   | N/A           | N/A          | 3000V  | N/A   |  |
| Galvanic Isolation |                                                                                                                                                         | Mains (Input) | Earth (Case) | Output | DALI  |  |
| USCO-150070LA      | Mains (Input)                                                                                                                                           | N/A           | 3750V        | 3750V  | 3000V |  |
| USCO-150105LA      | Earth (Case)                                                                                                                                            | 3750V         | N/A          | 3000V  | 1500V |  |
|                    | Output                                                                                                                                                  | 3750V         | 3000V        | N/A    | 1500V |  |
|                    | DALI                                                                                                                                                    | 3000V         | 1500V        | 1500V  | N/A   |  |

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|--------------|---------------|---------------|-----------------------|-----------------------|----------------------------|----------------------------|---------------|
|--------------|---------------|---------------|-----------------------|-----------------------|----------------------------|----------------------------|---------------|

### EMC Compliance

|                                   |                                                                        |                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |
|-----------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Emissions (CE & RE)               | Compliance to EN 55015 Class B; 47 CFR FCC Part 15, Subpart B, Class B |                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |
| Immunity                          | Compliance to EN 61547                                                 |                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |
| Electrostatic Discharge           | IEC 61000-4-2                                                          | Air Discharge: 8kV Contact Discharge: 4kV<br>Criteria A <sup>1)</sup> or Criteria B <sup>2)</sup>                                                                                                                                                                                                                               |  |  |  |  |
| Radiated Field                    | IEC 61000-4-3                                                          | 80MHz-1GHz, 3V/m with 1kHz Sine Wave / 80% Modulation<br>Criteria A <sup>1)</sup>                                                                                                                                                                                                                                               |  |  |  |  |
| Electrical Fast Transient / Burst | IEC 61000-4-4                                                          | 1KV, Criteria A <sup>1)</sup> or Criteria B <sup>2)</sup>                                                                                                                                                                                                                                                                       |  |  |  |  |
| Surge                             | IEC 61000-4-5                                                          | <u>100W&amp;150W</u><br>Differential Mode <sup>4)</sup> : 4kV , Common Mode <sup>3)</sup> : 6kV;<br>Criteria A <sup>1)</sup> or Criteria B <sup>2)</sup><br><br><u>40W&amp;75W&amp;210W</u><br>Differential Mode <sup>4)</sup> : 6kV , Common Mode <sup>3)</sup> : 6kV;<br>Criteria A <sup>1)</sup> or Criteria B <sup>2)</sup> |  |  |  |  |
| Conducted                         | IEC 61000-4-6                                                          | 150kHz-80MHz, 3Vrms<br>Criteria A <sup>1)</sup>                                                                                                                                                                                                                                                                                 |  |  |  |  |
| Power Frequency Magnetic Fields   | IEC 61000-4-8                                                          | 3A/Meter ,<br>Criteria A <sup>1)</sup>                                                                                                                                                                                                                                                                                          |  |  |  |  |
| Voltage Dips                      | IEC 61000-4-11                                                         | 100% dip; 0.5 cycle , Criteria A <sup>1)</sup> or Criteria B <sup>2)</sup><br>30% dip; 10 cycle, Criteria A <sup>1)</sup> or Criteria B <sup>2)</sup>                                                                                                                                                                           |  |  |  |  |
| Harmonic Current Emission         | IEC 61000-3-2                                                          | Class C (230Vac @ ≥ 60% load)                                                                                                                                                                                                                                                                                                   |  |  |  |  |
| Voltage Fluctuation & Flicker     | IEC 61000-3-3                                                          |                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |

1) Criteria A: Normal performance within the specification limits

2) Criteria B: Temporary degradation or loss of function, which is self-recoverable

3) Asymmetrical: Common mode (Line to earth)

4) Symmetrical: Differential mode (Line to line)

### 1-10V Dimming Specification

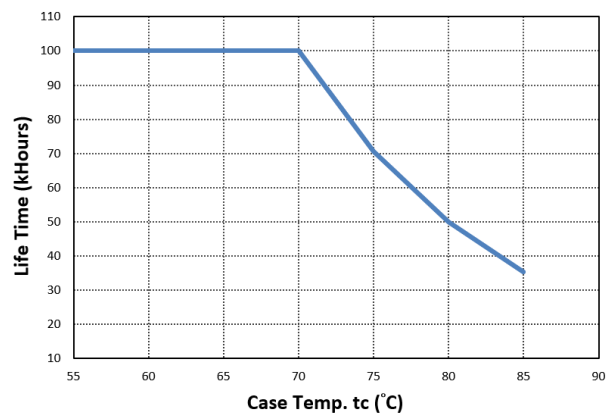
|                          |                      |                                                                                                                                                    |                 |
|--------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Absolute Maximum Voltage |                      | ± 20V                                                                                                                                              |                 |
| Source Current           |                      | 275µA ± 50µA                                                                                                                                       |                 |
| Dimming Input Range      |                      | 1) 0-1V: 10% duty, 1-10V: 10-100% duty. (except to USCO-040070DB)<br>2) 0-1V: 1-10% duty, 1-10V: 10-100% duty for USCO-040070DB<br>3) Open is 100% |                 |
| Auxiliary Output Voltage | +12V Output Range    | -                                                                                                                                                  | +12Vdc (+/-10%) |
|                          | +12V Output Current  | -                                                                                                                                                  | 50mA            |
|                          | Maximum Output Power | -                                                                                                                                                  | 0.6W            |

# LED Driver

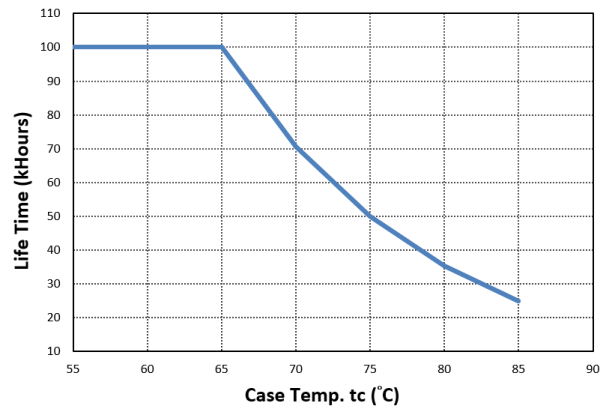
## USCO

Lifetime VS Case Temperature)

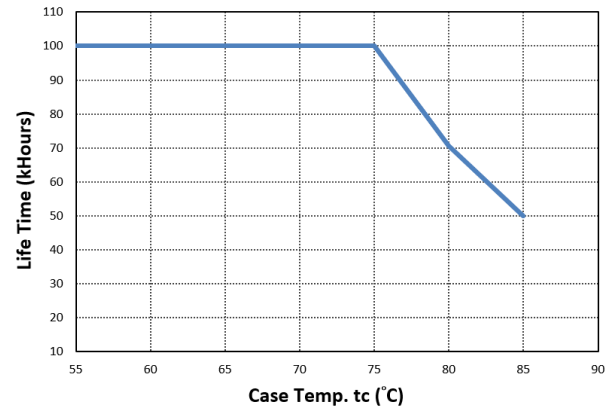
USCO-040070DB



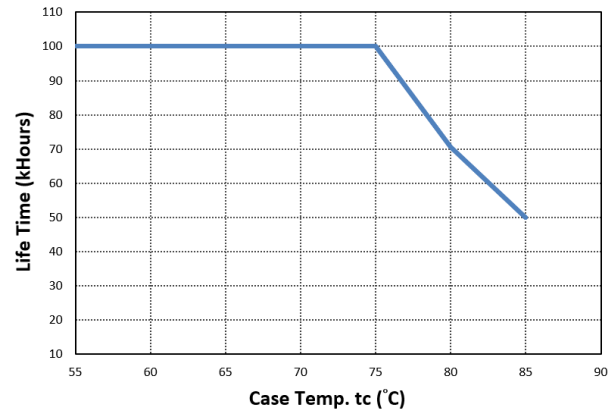
USCO-075070DA



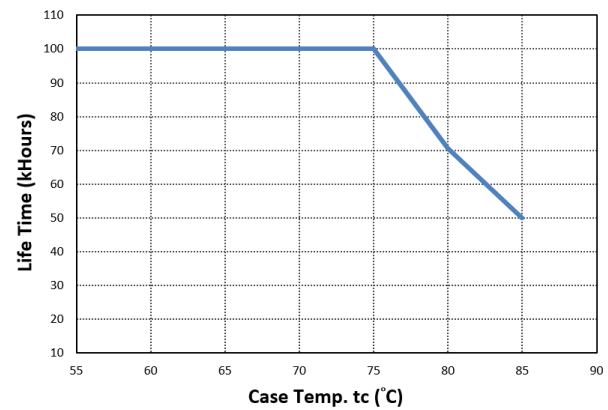
USCO-100070FA/ DA



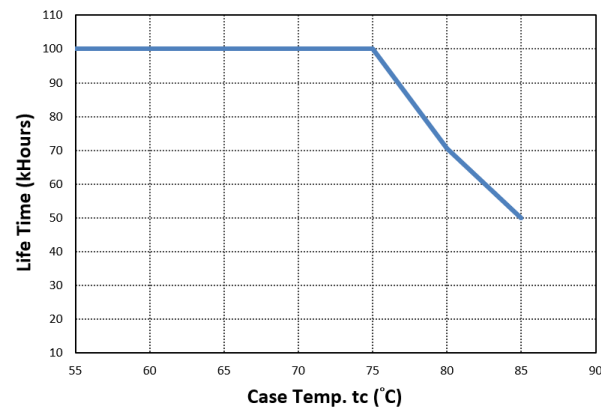
USCO-100105FA/ DA



USCO-150070FA/ DA/ LA



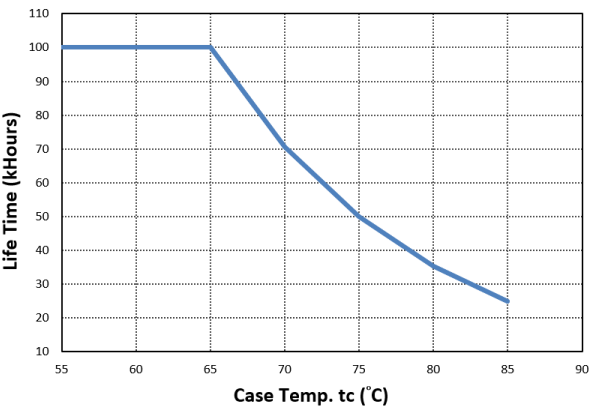
USCO-150105FA/ DA/ LA



# LED Driver

## USCO

USCO-210140DA

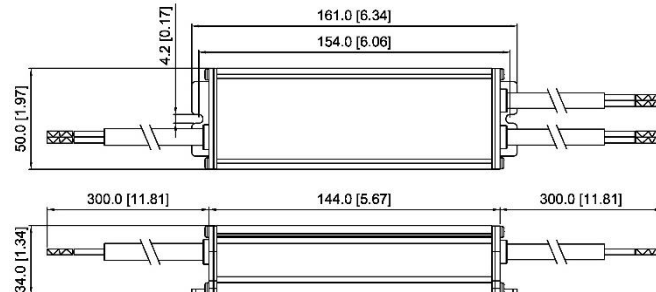


# LED Driver

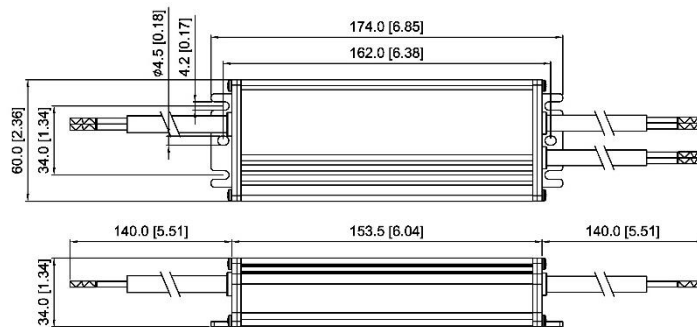
## USCO

### Dimensions

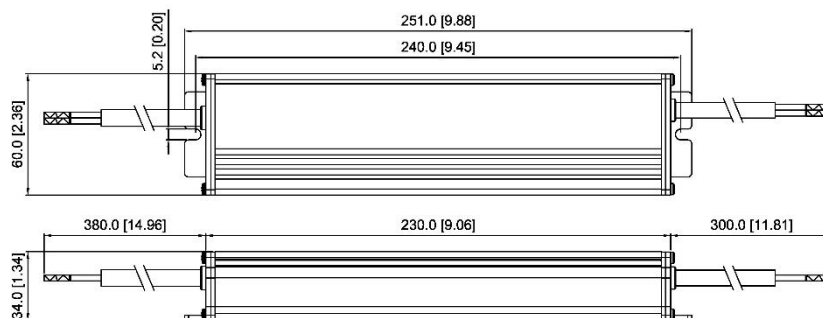
USCO-040070DB



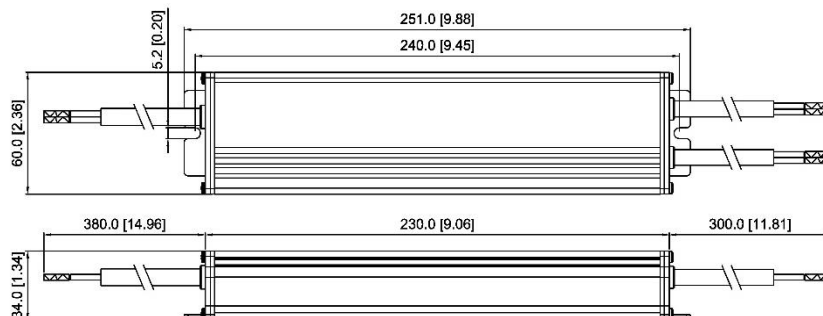
USCO-075070DA



USCO-100070FA, USCO-100105FA, USCO-100070DA, USCO-100105DA



USCO-100070DA, USCO-100105DA

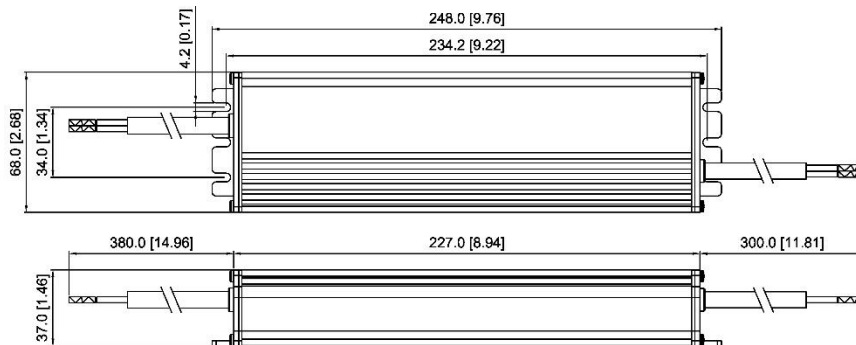


Unit: mm [inch]

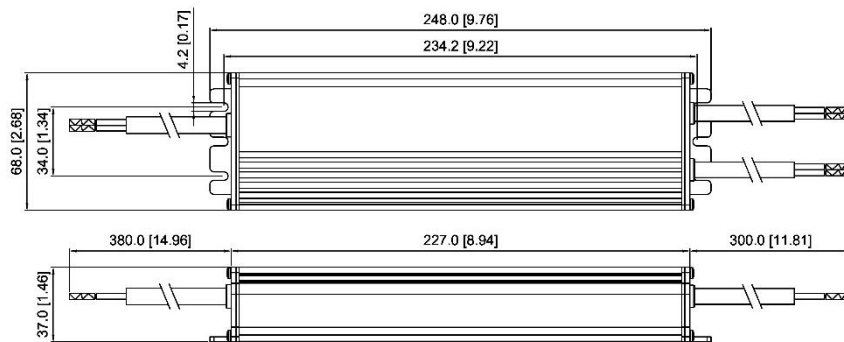
# LED Driver

## USCO

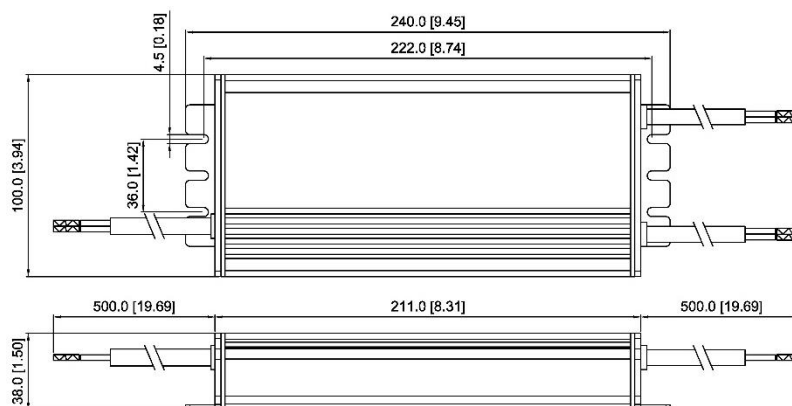
### USCO-150070FA, USCO-150105FA



### USCO-150070DA, USCO-150070LA, USCO-150105DA, USCO-150105LA



### USCO-210140DA



Unit: mm [inch]

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