PHILIPS

Lighting



# Enabling future proof OLED technology

## Lumiblade OLED Driver-Low Voltage

This driver detects the power and voltage needs of the attached OLED and drives the attached OLED Panel accordingly. This one-driver-fits-all-panels approach eases the life of the customers and makes this driver also compatible for future developments.

### Benefits

- 0-10V or DALI controller dimming down to 1%
- A protection circuit for the OLED is implemented
- Compact housing enables new design possibilities
- Cascading multiple drivers reduces the costs for the transformers

### Features

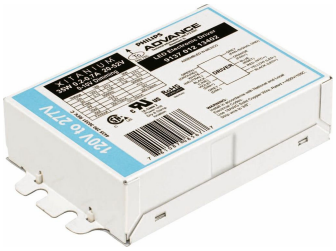
- Small dimensions
- Operating window from 100 to 400 mA, adjustable by OLED resistor or software programmable
- DALI and 0-10 Volt control interface in one driver
- 24 Volt DC input

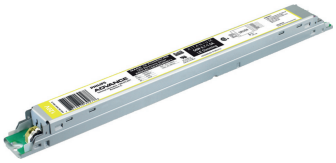
### Application

- Offices, integrating light into products Furniture

# Lumiblade OLED Driver-Low Voltage

## Versions



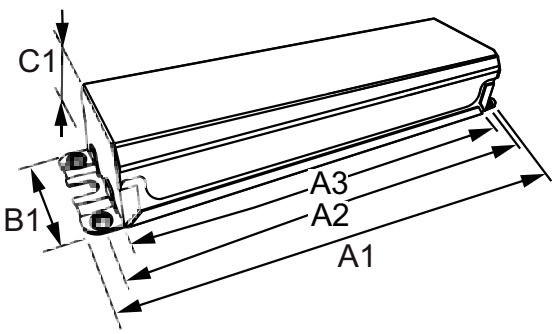







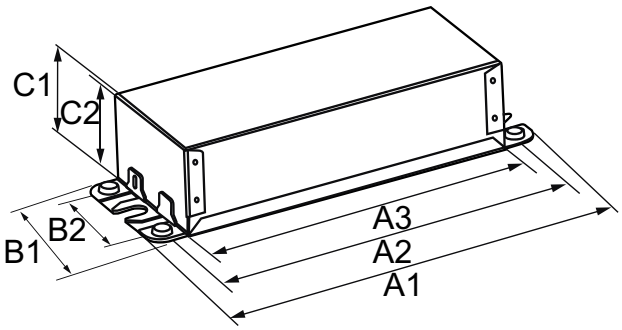
## Dimensional drawing

| Product | C1 | C2 | A1 | A3 | B1 |
|---|---|---|---|---|---|
| Fortimo LED DLM 1500 14W/835 UL Gen4 | 43.7 mm | 40.2 mm | 81.6 mm | 66.8 mm | 82.8 mm |
| Fortimo LED DLM 1100 9W/840 UL Gen4 | 43.7 mm | 40.2 mm | 81.6 mm | 66.8 mm | 82.8 mm |
| Fortimo LED DLM 1100 10W/830 UL Gen4 | 43.7 mm | 40.2 mm | 81.6 mm | 66.8 mm | 82.8 mm |
| Fortimo LED DLM 2000 19W/840 UL Gen4 | 43.7 mm | 40.2 mm | 81.6 mm | 66.8 mm | 82.8 mm |
| Fortimo LED DLM 1100 10W/835 UL Gen4 | 43.7 mm | 40.2 mm | 81.6 mm | 66.8 mm | 82.8 mm |
| Fortimo LED DLM 1500 13W/840 UL Gen4 | 43.7 mm | 40.2 mm | 81.6 mm | 66.8 mm | 82.8 mm |

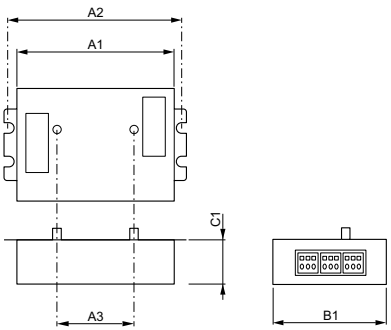



| Product | C1 | A1 | A2 | A3 | B1 |
|---|---|---|---|---|---|
| XITANIUM 75W 0.53A 0-10V INT-Y SXT | 38.1 mm | 167.4 mm | 153.2 mm | 138.2 mm | 59.2 mm |

## Dimensional drawing




| Product | B2 | C1 | A1 | A2 | B1 |
|---|---|---|---|---|---|
| XITANIUM 75W 1.05A 0-10V INT-Y | 42.9 mm | 38 mm | 168 mm | 153 mm | 59.1 mm |




| Product | C1 | A1 | A2 | A3 | B1 |
|---|---|---|---|---|---|
| XITANIUM 30W 0.52A 60V 0-10V INTELLIVOLT | 30.0 mm | 106.7 mm | 115.6 mm | 50.8 mm | 76.2 mm |



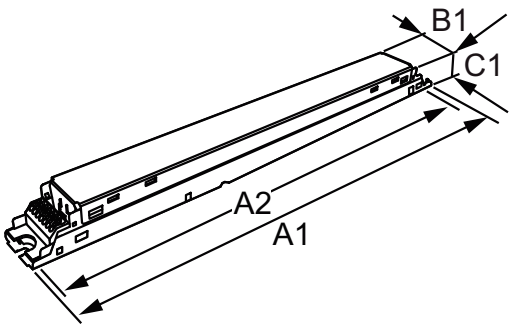
| Product | C1 | A1 | A2 | A3 | B1 |
|---|---|---|---|---|---|
| XITANIUM 2X50W 1.5A 0-10V -H SXT | 38.1 mm | 160.5 mm | 151.4 mm | 143.8 mm | 91.4 mm |




| Product | C1 | A1 | A2 | B1 |
|---|---|---|---|---|
| XITANIUM 54W 0.1-1.5A 27-54V MRK10 120-T | 25.4 mm | 358.1 mm | 350.0 mm | 30.0 mm |
| XITANIUM 54W 0.1-1.5A 27-54V SD INT-T | 25.4 mm | 358.1 mm | 350.0 mm | 30.0 mm |

# Lumiblade OLED Driver-Low Voltage

## Dimensional drawing




| Product | C1 | A1 | A2 | B1 |
|---|---|---|---|---|
| XITANIUM 75W 0.7-2.0A 54V TE/ DALI INT | 25.4 mm | 424.2 mm | 415.0 mm | 30.0 mm |
| XITANIUM 75W 0.7-2.0A 54V TE/ 0-10V INT | 25.4 mm | 424.2 mm | 415.0 mm | 30.0 mm |

## Approval and Application

| Order Code | Full Product Name | Surge Protection (Common/Differential) |
|---|---|---|
| 109801 | XITANIUM 30W 0.52A 60V 0-10V INTELLIVOLT | - |
| 498337 | XITANIUM 75W 0.7-2.0A 54V TE/DALI INT | - |
| 498329 | XITANIUM 75W 0.7-2.0A 54V TE/0-10V INT | - |
| 259135 | XITANIUM 2X50W 1.5A 0-10V -H SXT | - |
| 500355 | XITANIUM 54W 0.1-1.5A 27-54V MRK10 120-T | 2/2 kV |
| 501205 | XITANIUM 54W 0.1-1.5A 27-54V SD INT-T | 2/2 kV |
| 500330 | XITANIUM 75W 0.53A 0-10V INT-Y SXT | - |

| Order Code | Full Product Name | Surge Protection (Common/Differential) |
|---|---|---|
| 304154 | XITANIUM 75W 1.05A 0-10V INT-Y | - |
| 501411 | FORT DLM 1100 10W/830 UL GEN4 | - |
| 501429 | FORT DLM 1100 10W/835 UL GEN4 | - |
| 501437 | FORT DLM 1100 9W/840 UL GEN4 | - |
| 501452 | FORT DLM 1500 14W/835 UL GEN4 | - |
| 501460 | FORT DLM 1500 13W/840 UL GEN4 | - |
| 501494 | Fortimo LED DLM 2000 19W/840 UL Gen4 | - |

## Controls and Dimming

| Order Code | Full Product Name | Control Interface |
|---|---|---|
| 109801 | XITANIUM 30W 0.52A 60V 0-10V INTELLIVOLT | 0-10V |
| 498337 | XITANIUM 75W 0.7-2.0A 54V TE/DALI INT | DALI/100K |
| 498329 | XITANIUM 75W 0.7-2.0A 54V TE/0-10V INT | 1-10V Isolated/100K |
| 259135 | XITANIUM 2X50W 1.5A 0-10V -H SXT | 0-10V |
| 500355 | XITANIUM 54W 0.1-1.5A 27-54V MRK10 120-T | Mark 10 dimming |
| 501205 | XITANIUM 54W 0.1-1.5A 27-54V SD INT-T | Step Dimming |
| 500330 | XITANIUM 75W 0.53A 0-10V INT-Y SXT | 0-10V |

| Order Code | Full Product Name | Control Interface |
|---|---|---|
| 304154 | XITANIUM 75W 1.05A 0-10V INT-Y | 0-10V |
| 501411 | FORT DLM 1100 10W/830 UL GEN4 | - |
| 501429 | FORT DLM 1100 10W/835 UL GEN4 | - |
| 501437 | FORT DLM 1100 9W/840 UL GEN4 | - |
| 501452 | FORT DLM 1500 14W/835 UL GEN4 | - |
| 501460 | FORT DLM 1500 13W/840 UL GEN4 | - |
| 501494 | Fortimo LED DLM 2000 19W/840 UL Gen4 | - |

## Operating and Electrical

| Order Code | Full Product Name | Output Current (Nom) | Output Power (Nom) | Output Voltage | Input Voltage (AC) |
|---|---|---|---|---|---|
| 109801 | XITANIUM 30W 0.52A 60V 0-10V INTELLIVOLT | 350-520 mA | 30 W | 20-56 V | 120-277 V |
| 498337 | XITANIUM 75W 0.7-2.0A 54V TE/DALI INT | 700-2000 mA | 75 W | 27-54 V | 120-277 V |
| 498329 | XITANIUM 75W 0.7-2.0A 54V TE/0-10V INT | 700-2000 mA | 75 W | 27-54 V | 120-277 V |
| 259135 | XITANIUM 2X50W 1.5A 0-10V -H SXT | 1500 mA | 75 W | 20-36 V | 120-277 V |

| Order Code | Full Product Name | Output Current (Nom) | Output Power (Nom) | Output Voltage | Input Voltage (AC) |
|---|---|---|---|---|---|
| 500355 | XITANIUM 54W 0.1-1.5A 27-54V MRK10 120-T | 700-1500 mA | 54 W | 27-54 V | 120 V |
| 501205 | XITANIUM 54W 0.1-1.5A 27-54V SD INT-T | 700-1500 mA | 54 W | 27-54 V | 120-277 V |
| 500330 | XITANIUM 75W 0.53A 0-10V INT-Y SXT | 530 mA | 75 W | 71-143 V | 120-277 V |
| 304154 | XITANIUM 75W 1.05A 0-10V INT-Y | 750 mA | 75 W | - | 120-277 V |

# Lumiblade OLED Driver-Low Voltage

| Order Code | Full Product Name | Output Current (Nom) | Output Power (Nom) | Output Voltage | Input Voltage (AC) |
|---|---|---|---|---|---|
| 501411 | FORT DLM 1100 10W/830 UL GEN4 | - | - | - | - |
| 501429 | FORT DLM 1100 10W/835 UL GEN4 | - | - | - | - |
| 501437 | FORT DLM 1100 9W/840 UL GEN4 | - | - | - | - |
| 501452 | FORT DLM 1500 14W/835 UL GEN4 | - | - | - | - |
| 501460 | FORT DLM 1500 13W/840 UL GEN4 | - | - | - | - |
| 501494 | Fortimo LED DLM 2000 19W/840 UL Gen4 | - | - | - | - |

## Temperature

| Order Code | Full Product Name | T-Ambient (Max) | T-Ambient (Min) | T-Case Maximum (Max) | T-Case Maximum (Nom) |
|---|---|---|---|---|---|
| 109801 | XITANIUM 30W 0.52A 60V 0-10V INTELLIVOLT | 60 °C | -40 °C | 75 °C | - |
| 498337 | XITANIUM 75W 0.7-2.0A 54V TE/DALI INT | 50 °C | -20 °C | 75 °C | - |
| 498329 | XITANIUM 75W 0.7-2.0A 54V TE/0-10V INT | 50 °C | -20 °C | 75 °C | - |
| 259135 | XITANIUM 2X50W 1.5A 0-10V -H SXT | 55 °C | -40 °C | 80 °C | - |
| 500355 | XITANIUM 54W 0.1-1.5A 27-54V MRK10 120-T | 50 °C | -20 °C | 85 °C | - |
| 501205 | XITANIUM 54W 0.1-1.5A 27-54V SD INT-T | 50 °C | -20 °C | 85 °C | - |
| 500330 | XITANIUM 75W 0.53A 0-10V INT-Y SXT | 55 °C | -40 °C | 80 °C | - |
| 304154 | XITANIUM 75W 1.05A 0-10V INT-Y | - | - | 80 °C | - |
| 501411 | FORT DLM 1100 10W/830 UL GEN4 | - | -20 °C | - | 65 °C |
| 501429 | FORT DLM 1100 10W/835 UL GEN4 | - | -20 °C | - | 65 °C |
| 501437 | FORT DLM 1100 9W/840 UL GEN4 | - | -20 °C | - | 65 °C |
| 501452 | FORT DLM 1500 14W/835 UL GEN4 | - | -20 °C | - | 65 °C |
| 501460 | FORT DLM 1500 13W/840 UL GEN4 | - | -20 °C | - | 65 °C |
| 501494 | Fortimo LED DLM 2000 19W/840 UL Gen4 | - | -20 °C | - | 65 °C |

## Wiring

| Order Code | Full Product Name | Control Wire Length | Output Wire Length |
|---|---|---|---|
| 109801 | XITANIUM 30W 0.52A 60V 0-10V INTELLIVOLT | - | - |
| 498337 | XITANIUM 75W 0.7-2.0A 54V TE/DALI INT | - | - |
| 498329 | XITANIUM 75W 0.7-2.0A 54V TE/0-10V INT | - | - |
| 259135 | XITANIUM 2X50W 1.5A 0-10V -H SXT | 305.0 mm | 305.0 mm |
| 500355 | XITANIUM 54W 0.1-1.5A 27-54V MRK10 120-T | - | - |
| 501205 | XITANIUM 54W 0.1-1.5A 27-54V SD INT-T | - | - |
| 500330 | XITANIUM 75W 0.53A 0-10V INT-Y SXT | 270.0 mm | 270.0 mm |
| 304154 | XITANIUM 75W 1.05A 0-10V INT-Y | 270.0 mm | 270.0 mm |
| 501411 | FORT DLM 1100 10W/830 UL GEN4 | - | - |
| 501429 | FORT DLM 1100 10W/835 UL GEN4 | - | - |
| 501437 | FORT DLM 1100 9W/840 UL GEN4 | - | - |
| 501452 | FORT DLM 1500 14W/835 UL GEN4 | - | - |
| 501460 | FORT DLM 1500 13W/840 UL GEN4 | - | - |
| 501494 | Fortimo LED DLM 2000 19W/840 UL Gen4 | - | - |

# Lumiblade OLED Driver-Low Voltage

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