



Light  
is our passion

## 50W DALI 'Dim to Dark' LED Drivers

### Input characteristics

|                          |  |
|--------------------------|--|
| Input voltage AC         | 120-250V (ENEC approved)<br>120-277V (UL approved) |
| Input voltage DC         | 120-250V   |
| Input current            | 0.7A max   |
| Input frequency          | 50-60Hz  |
| Efficiency @ full load   | 89%  |
| Efficiency @ 2/3 load    | ≥85%   |
| Power factor @ full load | >0.9C  |
| THD @ full load          | <20%   |
| Inrush current           | negligible: 30mA <sup>2</sup> s @ 277V             |
| Surge protection         | 1kV DM, 2kV CM                                     |
| Standby power            | <0.5W  |

### Output characteristics

|                               |                                   |
|-------------------------------|-----------------------------------|
| LED output power              | 50W max                           |
| LED output current range      | 200-1,050mA (settable per output) |
| LED output current resolution | programmable in 1mA steps         |
| LED output current tolerance  | +/- 5%                            |
| LED outputs                   | 2 (UL Class 2)                    |
| LED output voltage range      | 2-55V                             |

### Control characteristics

|                      |  |
|----------------------|--|
| Control channels     | 2                                      |
| Dimming protocol     | DALI                                   |
| Dimming range        | 100%-0%                                |
| Dimming method       | Hybrid HydraDrive                      |
| Dimming curve        | linear or logarithmic                  |
| Driver configuration | with TOOLbox pro and FluxTool software |

### Product offering

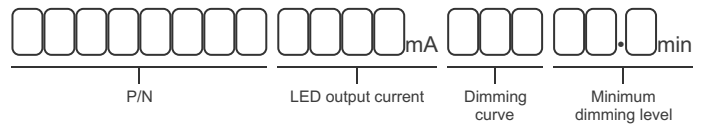


#### DUALdrive 560/M

P/N: DL0560M1

DUALdrive AC, 50W, DALI, 2 control channels, constant current, 2x 55V outputs, long metal

### Order number configuration



P/N: for LED driver part number, see 'Product offering' above.

LED output current: in 1mA steps, e.g. "0258", "1011", etc.

Dimming curve: enter "LOG" for logarithmic, or "LIN" for linear dimming curve.

Minimum dimming level: write to one decimal place, e.g. "05.0" for 5%, "07.5" for 7.5%, "10.1" for 10.1%, etc. Leave blank if default minimum dimming level (0.1%) is required.

### Protection

|                          |                     |
|--------------------------|---------------------|
| LED output short         | yes                 |
| LED output cross short   | yes                 |
| Overload                 | yes                 |
| Reverse polarity         | yes, for LED output |
| Restart after protection | yes                 |

## Dimensions, weight and packaging

### DUALdrive 560/M

|                  |               |
|------------------|---------------|
| LxWxH            | 444x29.9x21mm |
| Weight           | 360 g         |
| Items per carton | 8 or 28 pcs   |



## Standards and certifications

### Standards compliance

|                          |   |
|--------------------------|---|
| EN                       | 61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547, 62386-101/-102/-207 |
| UL, Recognized Component | UL 1310, UL 8750 (Class 2 output)   |
| FCC                      | 47 CFR Part 15 class B  |
| RoHS2                    |   |

### Certifications



## Wiring Specifications

|                   |   |
|-------------------|---|
| Wire type         | AWG 20-16, 0.5-1.5mm <sup>2</sup><br>solid or stranded copper |
| Wire strip length | 9mm   |

## Wiring diagrams

### DUALdrive 560/M

120-277 VAC — E  
DALI — E



— LED output  
— LED output  
— LEDcode / NTC

## Thermal protection

|                           |  |
|---------------------------|--|
| External NTC thermistor   | throttling @ 70 °C (settable)                  |
| External thermistor value | 47kΩ   |
| Recommended thermistors   | 238164063473 (leaded)<br>NTCASCWE3473J (screw) |

## Thermal specification

|                        |                   |
|------------------------|-------------------|
| Ta operating range     | -20 °C ... +50 °C |
| Tc max                 | 85 °C             |
| Tc lifetime            | 78 °C             |
| Lifetime @ Tc lifetime | 50,000 hours      |

## Warranty

|                 |         |
|-----------------|---------|
| Warranty period | 3 years |
|-----------------|---------|