



Light  
is our passion

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

### Input characteristics

Input voltage AC	120-250V (ENEC approved) 120-277V (UL approved)
Input voltage DC	120-250V
Input current	0.65A max
Input frequency	50-60Hz
Efficiency @ full load	86%
Efficiency @ 2/3 load	≥85%
Power factor @ full load	>0.9C
THD @ full load	<20%
Inrush current	negligible: 30mA²s @ 277V
Surge protection	2kV DM, 2kV CM
Standby power	<0.5W

### Output characteristics

LED output power	50W max
LED output current range	150-1,400mA (settable)
LED output current resolution	programmable in 1mA steps
LED output current tolerance	+/- 5%
LED outputs	2 (UL Class 2)
LED output voltage range	1.5 - 55V

### Control characteristics

Control channels	2
Dimming protocol	DALI
Dimming range	100%-0%
Dimming curve	linear, logarithmic, or LightShape
LightShape	Tunable white, 2x pc-white
Dimming method	Hybrid HydraDrive
Driver configuration	with TOOLbox pro and FluxTool

### Product offering

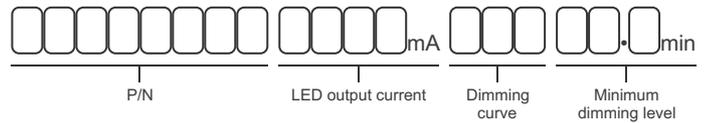


#### DUALdrive 560/U

P/N: DL0560U1

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, "LIN" for linear dimming curve, or "LSH" for LightShape.

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.

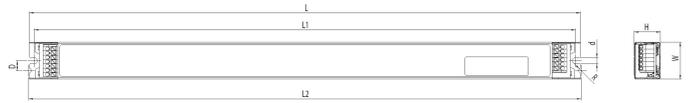
### Protection

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

## Dimensions, weight and packaging

### DUALdrive 560/U

LxWxH	444x29.9x21mm
Weight	364 g
Items per carton	28 pcs



## Standards and certifications

### Standards compliance

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

### Certifications



## Wiring Specifications

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

## Wiring diagrams

### DUALdrive 560/U



## Thermal protection

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

## Thermal specification

Ta operating range	-20 °C ... +50 °C
Tc max	80 °C
Tc lifetime	80 °C
Lifetime @ Tc lifetime	50,000 hours
Type TL	@1400mA: Tref 67 °C, max 86 °C

## Warranty

Warranty period	3 years
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