

iDRIVE®

CENTRALISE • OPTIMISE • ECONOMISE

DALI+

- Smooth dimming from 100% to <math><0.3\%</math>
- Programmable max. forward current
- 88% efficiency & PFC >0.9 at full load
- Compliant to DALI BS EN 62386-101:2009
- Fully isolated; SELV output up to 42W
- Healthy lighting compliant (no PWM)



Product Overview

The iDrive® range of high performance LED drivers are the lighting industry's perfect solution for powering high-brightness LEDs and LED arrays from a mains supply.

The new iDrive® DALI+ is one of the most complete DALI ballasts available on the market today and implements over 90 DALI commands from the official DALI BS EN 62386-101:2009 standard, including Part 107, which covers extended commands specifically for LED ballasts.

The iDrive® DALI+ is no ordinary DALI driver, enabling the maximum forward current to be software configured through DALI commands between 10% and 100%. If a 1A driver is configured to operate @ 700mA, the user still gets 8-bit resolution and minimum dimming to 0.3%.

The iDrive® DALI+ implements smooth constant current dimming support from 100% to 0.3% of the output current, with the ability to turn LEDs completely off. Employing a continuous analogue dimming current, the iDrive® DALI+ overcomes health and LED flicker problems associated with driving LEDs using PWM techniques.

The iDrive® DALI+ incorporates an advanced microprocessor design to achieve up to 88% efficiency and combines this with high quality components to offer extended driver life. The iDrive® DALI+ uses active power factor control to optimise PFC > 0.9 at full load, whilst full galvanic isolation ensures it meets Class II double insulation requirements.

The iDrive® DALI+ comes in a compact design and offers over 24 models, covering all of the major LED and LED array vendors in a power range from 10W to 42W, ensuring it is the most comprehensive and high performance DALI driver series yet.

Electrical Specifications

Standards & Approvals

EN 55015:2006,FCC; EN 61547/61047; EN62384; EN 60929:2009; EN 61000-3-2; CEIEC/EN61347-2-13; EMC CLASS A & B COMPLIANT

Input

Input Voltage Range: 200V AC to 240V AC +/-10%
Input Frequency: 47Hz to 63Hz
Consumption: 12-48W max.
Power Factor: >0.9 @ full load
Efficiency: Up to 88% typical @ full load
AC Mains Connection: 5mm pitch screw terminals
LED/IP Connector: 5 pole 5mm pitch screw terminals
Insulation: Double insulated (Class II)
Inrush Current: <math><3\text{A}</math>
Leakage Current: <math><0.25\text{mA}</math>

Output Options

Output Voltage: +9V to +55V DC*
Output Power: 42W max.*
Line Regulation: 1% max.
Load Regulation: 5% max.

Control Input

Dimming Control: Standard DALI interface
DALI Connector: 2-pole 5mm pitch screw terminals
Dimming Range: <math><0.3\%</math> to 100% of output load current
Maximum current: 10% to 100% (programmable)

Mechanical

Mounting: Two M4 screw mounting holes
Construction: ABS Housing at IP 20

Environmental

Operating Ambient Temperature: -20°C to +50°C
Storage Ambient Temperature: -20°C to +70°C
Relative Humidity: 85% max, non-condensing
Maximum Case Temp. Tc: 85°C

Protection

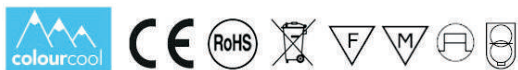
Overload, OVP, Short Circuit and Open Circuit Protection

Dimensions:

150.1 x 50.7 x 31mm (max.)

Weight:

180-220 grams



Part Numbers (5-pin version)

*Bespoke versions available on request

IST Part No.	Qty LED's	Output (V)	Output (W)	Output (A)	Inrush Current	Max. Ambient Temp
IDD2019540350	5~18	18~54	0.35	0.35	TBC	50°C
IDD2038540700	5~18	18~54	38	0.7	+1.8 -2.0	40°C
IDD2041411000	Xicato 2000	18~41	41	1	+1.8 -1.4	40°C

Product Dimensions

