

QL DL DT8 Series

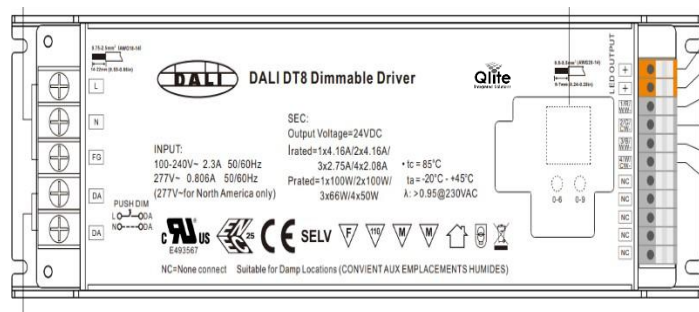
75W / 100W / 200W DALI LED Drivers

The **QL DL DT8 Series** is a professional-grade, constant voltage power supplies, available in **75W, 100W, and 200W** variants. Designed for advanced color control in LED lighting systems.

It integrates the functionality of a standard LED driver with the sophisticated control capabilities of the DALI Device Type 8 (DT8) protocol. This allows for the control of multi-channel fixtures (like Tunable White or RGBW) using a single DALI address..

This "6 in 1" driver offers unparalleled versatility by allowing the user to select one of six different DALI device types (DT8 color modes, or single-channel DT6) via a built-in digital display and buttons, making it adaptable to various types of color-changing or CCT (Correlated Color Temperature) LED lighting

- *6 in 1 DALI DT8 LED driver, max. output power 200W total.*
- *6 universal device types in 1: Tc, T.c, X.6, XY, r9, t6 can be set by the buttons.*
- *In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209:2011.*
- *Built-in DALI-2 interface, DALI DT8 device.*
- *4 channels DC 12/24V constant voltage output.*
- *Class 1 power supply, full isolated plastic case.*
- *Power factor > 0.98, efficiency > 93%.*
- *DALI DT8 device to control RGBW outputs or tunable white outputs via a single DALI address.*
- *Color control as defined in the DALI specification device type 8.*



- *Multi-color types can be set by manual set buttons.*
- *Supports DT8 device commands, compatible with DALI masters that support DT8 commands.*
- *Configuration via DALI master USB interface.*
- *Numeric digital display for setting DALI address manually.*
- *Compatible with universal AC push switch.*
- *Compliant with Safety Extra Low Voltage standard.*
- *Over load, over temperature protection.*
- *IP20 rating, suitable for indoor LED lighting applications.*
- *5 years warranty.*

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Specifications

LED Channel

4

DC Voltage

12VDC/24VDC

Max. Current

100-240VAC

Max. Total Output Current (A)

Max. 8.3A/ch, ch1+ch2+ch3+ch4=16.6A /

Max. 4.1A/ch, ch1+ch2+ch3+ch4=8.4A

6.25A (Based on 75W/12V)

3.12A (Based on 75W/24V)

8.33A (Based on 100W/12V)

4.16A (Based on 100W/24V)

Voltage Tolerance

±1%

Rated Power

75W / 100W / 200W

Voltage Range

100-277V AC

Frequency Range

50/60Hz

Power Factor (Typ.)

0.98 @ 230VAC

Total Harmonic Distortion

THD ≤ 15% (@ full load / 230VAC)

Efficiency (Typ.)

93% @ 230VAC full load

Dimming Curve

Logarithmic

Leakage Current

< 0.5mA /230VAC

AC Current (Typ.)

2.3A @ 100VAC, 1A @ 230VAC,

0.9A@277VAC

75W: 0.35A(12V), 0.46A(24V)

100W: 0.5A(12V), 0.64A(24V)

Inrush Current (Typ.)

COLD START Max. 57.8A at

230VAC, 312µs duration

Standby Power Consumption

< 1W

Dimming Interface

DALI Device Type 8 (DALI

consumption

Dimming Range

0.1%-100%

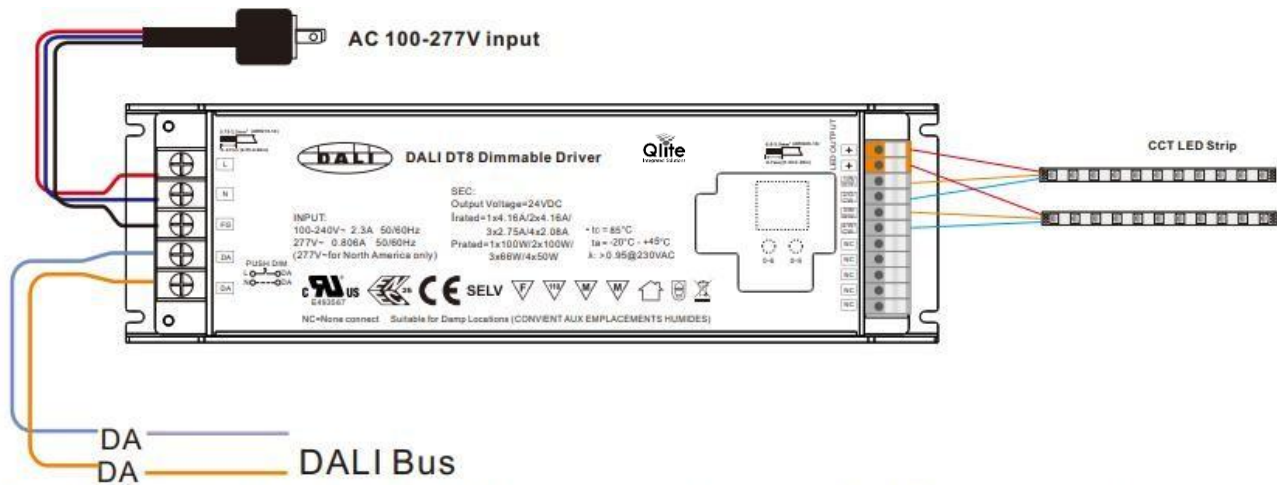
Dimming Method

Pulse Width Modulation

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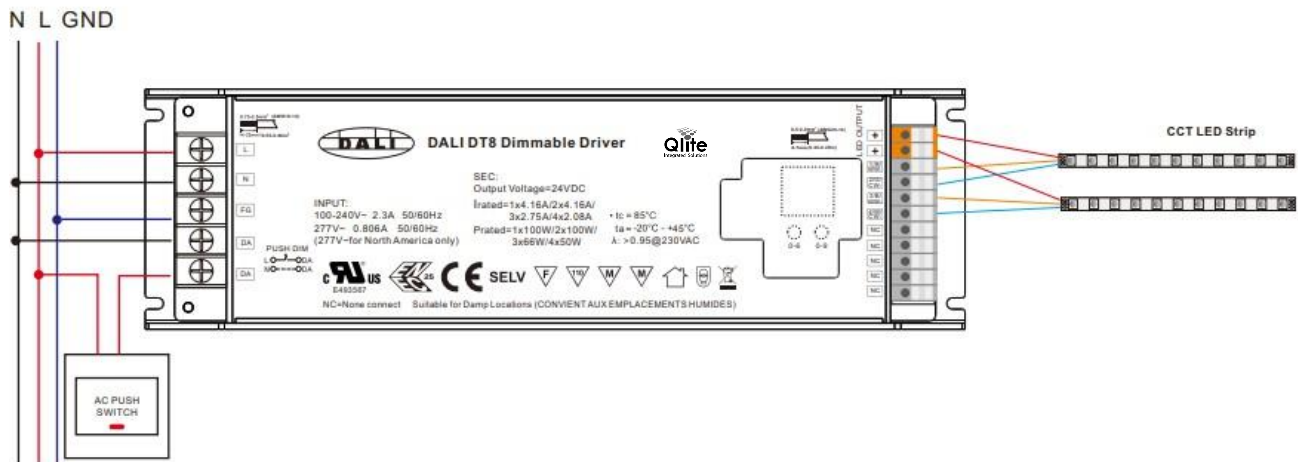
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Wiring Diagram



Note: 1) Please make sure that the DALI master controller supports Tc color type commands.
2) The control gear will be discovered by master controller as 2 separate Tc devices.

Fig 1. With DALI Master



Note: only the 1st group CCT LED can be controlled under this mode.

Fig 2. With PUSH Dimmer