

Constant current LEDs are to be wired in <u>SERIES</u> and require a <u>MINIMUM</u> and maximum number of fixtures connected to a driver as indicated on the following page.

POWERING or TESTING less than the MINIMUM number of fixtures per driver OR connecting fixtures with the driver live OR wiring them in parallel will IMMEDIATELY and PERMANENTLY DESTROY the LEDs.

Carefully read instructions prior to installation and testing.



Constant Current drivers



 Driver	AC Input	Dimming		Minimum number of fixtures	Maximum number of fixtures	Current setting (mA)
			Group 1:			
			Group 2:			
			Group 3:			

Please note: Dimming/control wiring not shown in the diagram above.

ground

(green)

Constant Current Driver

Blue3

⇒ Black 3

(black)

<

Group 3 -

inter-lux

outputs/groups

Project:	Туре:	Date:
Manufacturer:	Fixture:	Page:



Maximum Wiring Distance Guide*

Wire Gauge	Maximum Lead Length
18	72 ft (22 m)
16	118 ft (36 m)
14	150 ft (46 m)
12	200 ft (61 m)

*Actual distance must be calculated by installer. Must comply with NEC code.

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Wiring diagram POWERdrive 562/S, 562/A

(PW0562S1, PW0562A1)

Pay attention when connecting the LED groups:

igtriangle polarity reversal results in no light output and often damages the LEDs.



WARNING: Disconnect power before wiring the LED fixtures. Connecting the fixtures to a live driver will immediately and permanently damage the LEDs

WARNING: Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.

CAUTION: The device may only be connected and installed by a qualified electrician. All applicable regulations, legislation and building codes must be observed. Incorrect installation of the device can cause irreparable damage to the device and the connected LEDs.

LED groups

Indicates the location of the connectors for your LED groups. R(ed) represents channel 1, G(reen) represents channel 2 and B(lue) represents channel 3. The default group color allocation can be changed using the TOOLbox pro and freely available FluxTool application.

Maximum wiring distance at full load (from LED driver to LED load):

AWG value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	45.9	59	72.2	91.9	118.1

Please observe voltage drop over long cable lengths.

Longer cable lengths increase EMI susceptibility.

LEDcode/NTC

The LEDcode/NTC interface allows connection of a $47k\Omega$ NTC thermistor for closed loop thermal control. The NTC throttle temperature is programmable through the freely available FluxTool software (see "Configuring your driver over DMX in").

DMX in

Use these connectors when the driver is used in a DMX network. Connect the network cable's DMX+, DMX- and DMX shielding wire (the orange/white, orange and brown wire in a CAT5 cable) to the DMX in+, DMX in- and DMX in shield connector respectively.

Configuring your driver over DMX in

Download the FluxTool software from your eldoLED driver's product web page and connect a TOOLbox pro to DMX in to configure your driver. You can configure:

- · Various DMX parameters
- Dimming curve
- Minimum dimming level
- · NTC throttle temperature
- · LED drive current per output: from 200mA-1,050mA in 1mA steps

120-277 VAC

The driver has been designed for use with universal mains voltage input of 120-277 VAC, 50/60Hz, or with DC input of 120-250V (emergency lighting).

Wiring diagram POWERdrive 562/S, 562/A

Connecting 2 LED groups



Connecting 1 LED group

