eldoLED
your product | *our drive*
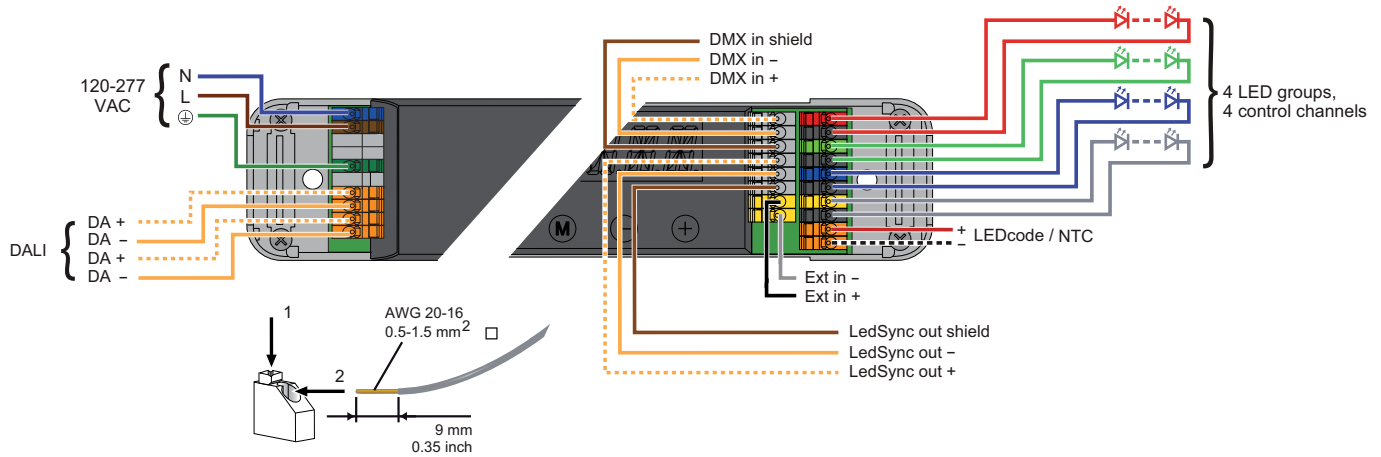
In Europe, use a H03V 0.75mm^2 power cable and apply following strip lengths:

15 mm   6 mm
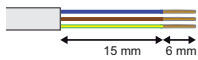
Pay attention when connecting the LED groups:
- polarity reversal results in no light output and often damages the LEDs
- combining + and - of different groups damages the driver

120-277 VAC { N / L / ⊕

DALI { DA + / DA − / DA + / DA −

DMX in shield
DMX in −
DMX in +

4 LED groups, 4 control channels

+ LEDcode / NTC

Ext in −
Ext in +

LedSync out shield
LedSync out −
LedSync out +

1
2

AWG 20-16
0.5-1.5 mm^2 □

9 mm
0.35 inch

⚡ 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.

120-277VAC
The driver accepts a universal mains voltage input of 120-277VAC, 50/60Hz.

DALI
Use these connectors to connect the driver to a DALI network. Always combine a DA+ and DA- connector for either data input or data output.

DMX in/LedSync out
Use these connectors when the driver is used in a DMX network. For DMX in, 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. For LedSync out, connect the network cable's DMX+, DMX- and DMX shielding wire to the LedSync out+, LedSync out- and LedSync shield connector respectively.

LED wire length
Maximum wire length from LED driver to LED engine at full 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 wire lengths.

⚠ Longer wire lengths increase EMI susceptibility.

LED groups
Indicates the location of the connectors for your LED groups. R(ed) represents channel 1, G(reen) represents channel 2, B(lue) represents channel 3 and W(hite) represents channel 4. The default group color allocation can be changed over the 3-button user interface.

4 outputs, 100W, η:90%
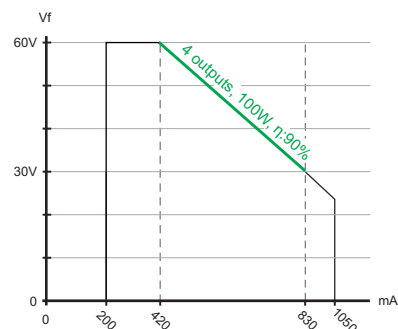
Output voltage vs output current for 4 outputs with symmetrical load
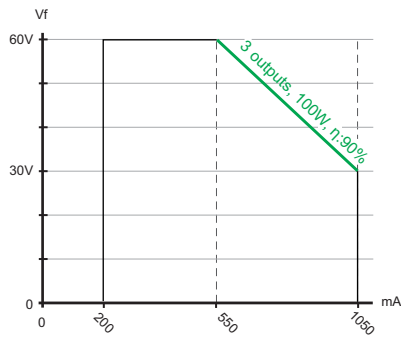Vf$_{typ}$ is 57V, LED current ranges from 200mA - 1050mA

LEDcode/NTC
Use these connectors to connect a 47kΩ NTC thermistor for closed loop LED engine temperature control.

Ext in
You have the possibility to connect an external control device (0-10V control device, 10kΩ potentiometer or show selection switch) to the driver's Ext in+ and Ext in- connectors. Configure the driver for use with an external control device over the 3-button user interface.
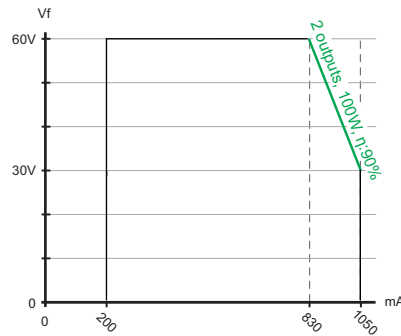

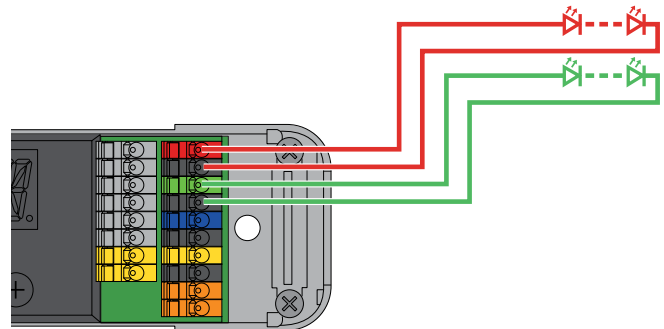## Connecting 3 LED groups

Output voltage vs output current for 3 outputs with symmetrical load
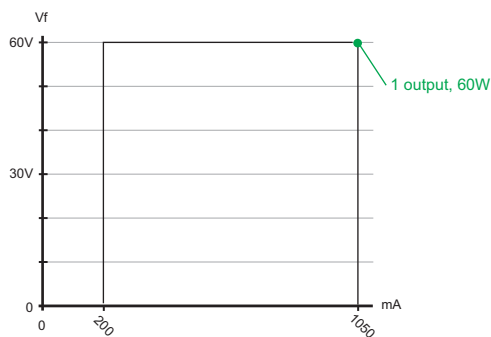Vf_{typ} is 57V, LED current ranges from 200mA - 1050mA
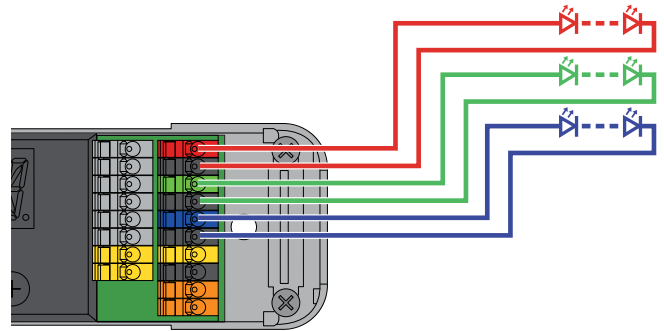
Connecting 2 LED groups

Output voltage vs output current for 2 outputs with symmetrical load
Vf_{typ} is 57V, LED current ranges from 200mA - 1050mA

Connecting 1 LED group

Output voltage vs output current for 1 output
Vf_{typ} is 57V, LED current ranges from 200mA - 1050mA