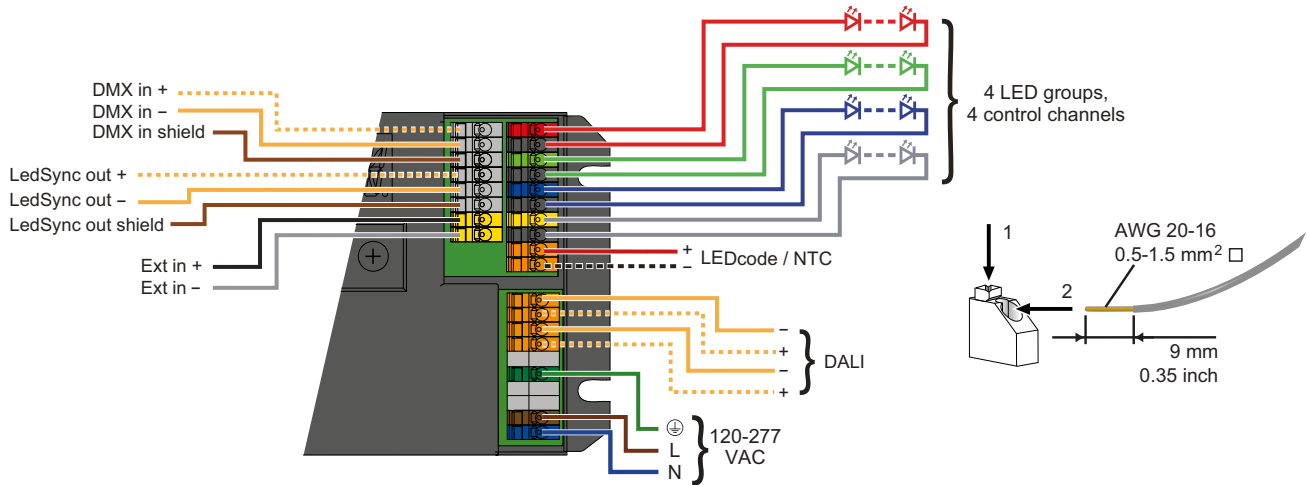


## Wiring diagram POWERdrive 106/S

(PWR106S1)

- ⚠ 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



**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

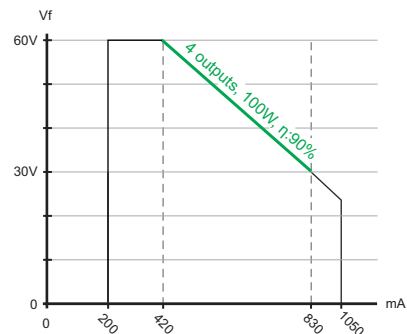
Use these connectors when the driver is used in a DMX network. For DMX in, connect the network cable's DMX+, DMX- and DMX shielding wire (the orange/white, orange and brown wire in a CAT5 cable) to the DMX in+, DMX in- and DMX in shield connector respectively. For LedSync out, connect the network cable's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

### 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.

### 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.



Output voltage vs output current for 4 outputs with symmetrical load  
 $V_{f \text{ typ}}$  is 57V, LED current ranges from 200mA - 1050mA

### LED wiring distance

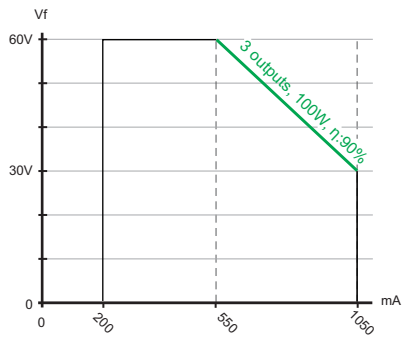
Maximum wiring distance at full load:

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

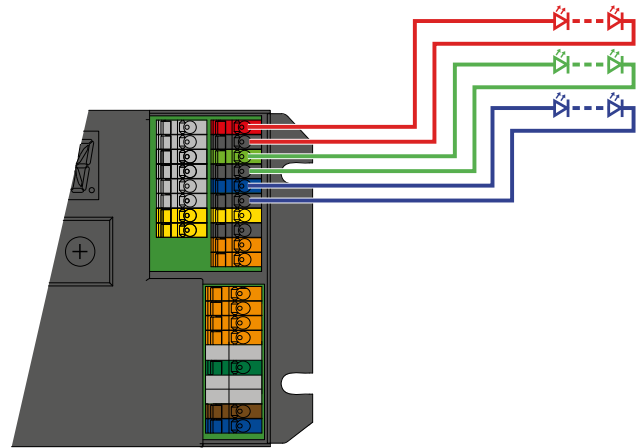
### LEDcode/NTC

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

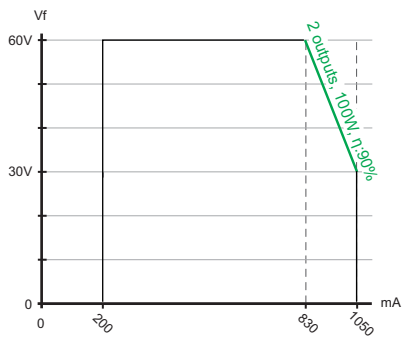
**Connecting 3 LED groups**



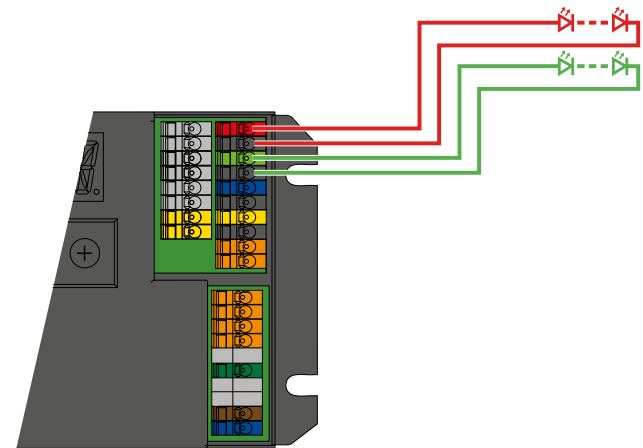
Output voltage vs output current for 3 outputs with symmetrical load  
 V<sub>f</sub> <sub>typ</sub> is 57V, LED current ranges from 200mA - 1050mA



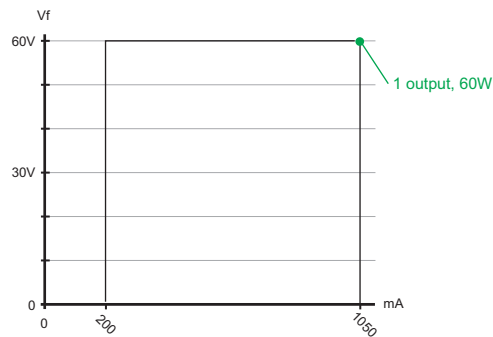
**Connecting 2 LED groups**



Output voltage vs output current for 2 outputs with symmetrical load  
 V<sub>f</sub> <sub>typ</sub> is 57V, LED current ranges from 200mA - 1050mA



**Connecting 1 LED group**



Output voltage vs output current for 1 output  
 V<sub>f</sub> <sub>typ</sub> is 57V, LED current ranges from 200mA - 1050mA

