

Universal Douglas Driver Application Note: Combining Multi-Channel Outputs in Parallel

The following Application Note is applicable to Universal Douglas LED drivers that have constant current multi-channel outputs. The output channels can be configured in parallel to provide higher output currents.

The outputs of the Universal Douglas constant current Multi-Channel drivers can be configured with the drive currents of each channel in parallel to create a new output with a higher drive current. When outputs are connected in parallel, the output current of the individual channels are added together to determine the new output current. The power for each channel is similarly additive.

Example: D150C25UNVA-A Constant Current 150mA, 4-Channel Driver

Configuration	Output Current	Output Power	Total Output Power
4 Individual Outputs (Channels)	4 x 150mA	4 x 6.25W	25W
2 Outputs of two parallel channels each	2 x 300mA	2 x 12.5W	25W
1 Output of three parallel channels	1 x 450mA	1 x 18.75W	18.75W
1 Output of four parallel channels	1 x 600mA	1 x 25W	25W

Wiring Configuration Examples: D150C25UNVA-A

