

Universal Douglas Driver Application Note: LED Driver Remote Mounting

LED Drivers and Power Supplies can be remote mounted from the modules that they are driving. The remote mounting distance is based on the voltage drop generated across the supply leads. The voltage drop will vary based on the operating current and the gauge wire used.

Typically, a maximum voltage drop of 1 Volt across the output leads is acceptable. The chart below shows the lead length based on the current and wire gauge that will generate a 1 Volt drop.

Remote Mounting Distance Chart

Length of Wire (in feet) for 1V Drop					
Operating Current (Amps)					
Wire Gauge	0.350	0.700	1.050	1.400	5.0
18	447	224	149	112	31
16	711	356	237	178	50
14	1132	566	377	283	79

Note: In applications where the module operating voltage is within 1 Volt of the driver's maximum output voltage, the remote mounting distances will be less and require a larger wire gauge.