

3% Voltage Drop								
13V								
Amps								
Wire Length	35A	45A	55A	65A	75A	85A	100A	125A
0ft - 6ft	10AWG	8AWG	6AWG	6AWG	3AWG	3AWG	3AWG	1AWG
10ft	9AWG	8AWG	6AWG	6AWG	3AWG	3AWG	3AWG	1AWG
15ft	7AWG	6AWG	6AWG	5AWG	3AWG	3AWG	3AWG	1AWG
20ft	6AWG	5AWG	4AWG	4AWG	3AWG	2AWG	2AWG	1AWG
25ft	5AWG	4AWG	3AWG	3AWG	2AWG	1AWG	1AWG	0AWG

3% Voltage Drop								
14.6V								
Amps								
Wire Length	35A	45A	55A	65A	75A	85A	100A	125A
0ft - 6ft	10AWG	8AWG	6AWG	6AWG	3AWG	3AWG	3AWG	1AWG
10ft	10AWG	8AWG	6AWG	6AWG	3AWG	3AWG	3AWG	1AWG
15ft	8AWG	7AWG	6AWG	5AWG	3AWG	3AWG	3AWG	1AWG
20ft	7AWG	6AWG	5AWG	4AWG	3AWG	3AWG	2AWG	1AWG
25ft	6AWG	5AWG	4AWG	3AWG	2AWG	2AWG	1AWG	0AWG

3% Voltage Drop								
16.5V								
Amps								
Wire Length	35A	45A	55A	65A	75A	85A	100A	125A
0ft - 6ft	10AWG	8AWG	6AWG	6AWG	3AWG	3AWG	3AWG	1AWG
10ft	10AWG	8AWG	6AWG	6AWG	3AWG	3AWG	3AWG	1AWG
15ft	9AWG	7AWG	6AWG	6AWG	3AWG	3AWG	3AWG	1AWG
20ft	7AWG	6AWG	5AWG	5AWG	3AWG	3AWG	3AWG	1AWG
25ft	6AWG	5AWG	4AWG	4AWG	3AWG	2AWG	2AWG	1AWG

This chart is based on the use of Copper Wire with a resistance of 1.68 Ohms and a max wire temperature of 167°F, and accounts for a 3% drop in voltage. Using the incorrect gauge or other types of wiring, such as aluminum, may result in further loss in voltage, overheating of the wire, or damage to the converter, wire, or property.