

Inspired LED — 12V Panel Power Requirements

July 20, 2026 · Calculated at 80% max transformer load

12V Power Requirements

Power Source	Pro Series 21 LED Panel 1.5 W/ft	Pro Series 42 LED Panel 3 W/ft	Designer Series 10 1.5 W/ft	Designer Series 18 3 W/ft	Designer Series Custom Panels 2.75 W/ft	Radiant Edge Custom Panels 3 W/ft	Single Row Custom Angle Adjust Tubes 2.75 W/ft	Double Row Custom Angle Adjust Tubes 5.25 W/ft
20W LinDrive Dimmable Transformer (SKU 3858)	128" (10.7 ft) 16.0W load	64" (5.3 ft) 16.0W load	128" (10.7 ft) 16.0W load	64" (5.3 ft) 16.0W load	70" (5.8 ft) 16.0W load	64" (5.3 ft) 16.0W load	70" (5.8 ft) 16.0W load	37" (3.0 ft) 16.0W load
24W (2 AMP) Plug-In Power Supply (SKU 3542)	154" (12.8 ft) 19.2W load	77" (6.4 ft) 19.2W load	154" (12.8 ft) 19.2W load	77" (6.4 ft) 19.2W load	84" (7.0 ft) 19.2W load	77" (6.4 ft) 19.2W load	84" (7.0 ft) 19.2W load	44" (3.7 ft) 19.2W load
40W E-Series Dimmable Transformer (SKU 3577)	256" (21.3 ft) 32.0W load	128" (10.7 ft) 32.0W load	256" (21.3 ft) 32.0W load	128" (10.7 ft) 32.0W load	140" (11.6 ft) 32.0W load	128" (10.7 ft) 32.0W load	140" (11.6 ft) 32.0W load	73" (6.1 ft) 32.0W load
40W LinDrive Dimmable Transformer (SKU 3842)	256" (21.3 ft) 32.0W load	128" (10.7 ft) 32.0W load	256" (21.3 ft) 32.0W load	128" (10.7 ft) 32.0W load	140" (11.6 ft) 32.0W load	128" (10.7 ft) 32.0W load	140" (11.6 ft) 32.0W load	73" (6.1 ft) 32.0W load
40W Magnetic Dimmable Transformer (SKU 4789)	256" (21.3 ft) 32.0W load	128" (10.7 ft) 32.0W load	256" (21.3 ft) 32.0W load	128" (10.7 ft) 32.0W load	140" (11.6 ft) 32.0W load	128" (10.7 ft) 32.0W load	140" (11.6 ft) 32.0W load	73" (6.1 ft) 32.0W load
60W (5 AMP) Plug-In Power Supply (SKU 3753)	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	110" (9.1 ft) 48.0W load
60W Mean Well Direct-Wire Driver (SKU 3765)	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	110" (9.1 ft) 48.0W load
60W EMCOD 5-in-1 Universal Driver (SKU 8620)	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	110" (9.1 ft) 48.0W load
60W E-Series Dimmable Transformer (SKU 3578)	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	110" (9.1 ft) 48.0W load
60W LinDrive Dimmable Transformer (SKU 8551)	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	110" (9.1 ft) 48.0W load
60W Magnetic Dimmable Transformer (SKU 4790)	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	384" (32.0 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	192" (16.0 ft) 48.0W load	209" (17.5 ft) 48.0W load	110" (9.1 ft) 48.0W load

Power Source	Pro Series 21 LED Panel 1.5 W/ft	Pro Series 42 LED Panel 3 W/ft	Designer Series 10 1.5 W/ft	Designer Series 18 3 W/ft	Designer Series Custom Panels 2.75 W/ft	Radiant Edge Custom Panels 3 W/ft	Single Row Custom Angle Adjust Tubes 2.75 W/ft	Double Row Custom Angle Adjust Tubes 5.25 W/ft
100W Mean Well Direct-Wire Driver (SKU 3956)	640" (53.3 ft) 80.0W load	320" (26.7 ft) 80.0W load	640" (53.3 ft) 80.0W load	320" (26.7 ft) 80.0W load	349" (29.1 ft) 80.0W load	320" (26.7 ft) 80.0W load	349" (29.1 ft) 80.0W load	183" (15.2 ft) 80.0W load
100W EMCOD 5-in-1 Universal Driver (SKU 8621)	640" (53.3 ft) 80.0W load	320" (26.7 ft) 80.0W load	640" (53.3 ft) 80.0W load	320" (26.7 ft) 80.0W load	349" (29.1 ft) 80.0W load	320" (26.7 ft) 80.0W load	349" (29.1 ft) 80.0W load	183" (15.2 ft) 80.0W load
100W Magnetic Dimmable Transformer (SKU 4791)	640" (53.3 ft) 80.0W load	320" (26.7 ft) 80.0W load	640" (53.3 ft) 80.0W load	320" (26.7 ft) 80.0W load	349" (29.1 ft) 80.0W load	320" (26.7 ft) 80.0W load	349" (29.1 ft) 80.0W load	183" (15.2 ft) 80.0W load
150W Mean Well Direct-Wire Driver (SKU 3855)	960" (80.0 ft) 120.0W load	480" (40.0 ft) 120.0W load	960" (80.0 ft) 120.0W load	480" (40.0 ft) 120.0W load	524" (43.6 ft) 120.0W load	480" (40.0 ft) 120.0W load	524" (43.6 ft) 120.0W load	274" (22.9 ft) 120.0W load
150W Magnetic Dimmable Transformer (SKU 3749)	960" (80.0 ft) 120.0W load	480" (40.0 ft) 120.0W load	960" (80.0 ft) 120.0W load	480" (40.0 ft) 120.0W load	524" (43.6 ft) 120.0W load	480" (40.0 ft) 120.0W load	524" (43.6 ft) 120.0W load	274" (22.9 ft) 120.0W load
200W EMCOD 5-in-1 Universal Driver (SKU 8622)	1280" (106.7 ft) 160.0W load	640" (53.3 ft) 160.0W load	1280" (106.7 ft) 160.0W load	640" (53.3 ft) 160.0W load	698" (58.2 ft) 160.0W load	640" (53.3 ft) 160.0W load	698" (58.2 ft) 160.0W load	366" (30.5 ft) 160.0W load
200W Magnetic Dimmable Transformer (SKU 3945)	1280" (106.7 ft) 160.0W load	640" (53.3 ft) 160.0W load	1280" (106.7 ft) 160.0W load	640" (53.3 ft) 160.0W load	698" (58.2 ft) 160.0W load	640" (53.3 ft) 160.0W load	698" (58.2 ft) 160.0W load	366" (30.5 ft) 160.0W load
264W Mean Well Direct-Wire Driver (SKU 3854)	1690" (140.8 ft) 211.2W load	845" (70.4 ft) 211.2W load	1690" (140.8 ft) 211.2W load	845" (70.4 ft) 211.2W load	922" (76.8 ft) 211.2W load	845" (70.4 ft) 211.2W load	922" (76.8 ft) 211.2W load	483" (40.2 ft) 211.2W load
300W EMCOD 5-in-1 Universal Driver (SKU 8623)	1920" (160.0 ft) 240.0W load	960" (80.0 ft) 240.0W load	1920" (160.0 ft) 240.0W load	960" (80.0 ft) 240.0W load	1047" (87.3 ft) 240.0W load	960" (80.0 ft) 240.0W load	1047" (87.3 ft) 240.0W load	549" (45.7 ft) 240.0W load
300W Magnetic Dimmable Transformer (SKU 3788)	1920" (160.0 ft) 240.0W load	960" (80.0 ft) 240.0W load	1920" (160.0 ft) 240.0W load	960" (80.0 ft) 240.0W load	1047" (87.3 ft) 240.0W load	960" (80.0 ft) 240.0W load	1047" (87.3 ft) 240.0W load	549" (45.7 ft) 240.0W load

Please refer to voltage drop measurements below.

Power Source Load: for best performance and longevity, transformers/drivers are run at no more than 80% of rated capacity.

Please Note: power requirements shown are conservative estimates for general reference. Actual results may vary by system configuration. For assistance with complex systems, contact orders@inspiredled.com or design@inspiredled.com.