



Driving Your Vision

A division of Endicott Research Group, Inc.

GEN50WUV1.2A-DHL

Constant Current, 50W, 1200mA,
Dimmable, Type HL

2601 Wayne Street, Endicott, NY 13760 • www.ERGLighting.com • 1-800-215-5866



Description

Driver Type: Constant Current	Total Output Power: 50W
Input Voltage Range: 120~277Vac +/- 10%	Selectable Outputs: 1
Dimming: 0 - 10V	Warranty: 5 years
Certifications: UL8750; IP20 dry/damp	Protections: voltage; current; short circuit

Applications

General Lighting • Downlight • Flush Mount • Troffer

Performance Specifications

Linear Fixture • Wall Pack

Model Number	Max Output Power	Output Current	Output Voltage	Efficiency (@277V)	Remote Mounting Distance (#18AWG)	Class 2	
						US	Canada
GEN50WUV1.2A-DHL	50W	1200mA	21 - 42V	86%	12 ft.	√	√

ELECTRICAL SPECIFICATIONS:		ENVIRONMENTAL SPECIFICATIONS/ SAFETY AND EMC COMPLIANCE:	
Input Voltage Range:	120~277Vac ± 10%	Operating Temperature:	-40 to 60°C
Frequency:	50/60Hz	Storage Temperature:	-40 to 85°C
Power Factor:	>0.9 @full load	Humidity:	5% to 95%
Inrush Current:	40A @120V	MTBF:	270,000 hours at 40°C ambient (~70°C Case temp)
Max Input Current:	0.53A @120V 0.24A @227V	Maximum Case Temperature:	90°C
THD:	<20%	UL/cUL	UL 8750, Class P, Type HL
Protection:	Over Voltage, Over Current, Short Circuit	FCC, 47CFR Part 15	Class B Consumer Limit
Withstand Voltage:	Input to Output. 2,800Vdc, 2mA	EN61000-3-2	HCE: Class C



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PHYSICAL DIMENSIONS:	
Length (L):	9.57"
Width (W):	1.13"
Height (H):	1.07"
Mounting (M):	8.95"
Weight:	0.40 kg
WIRE SPECIFICATIONS:	
Input:	12", UL 1316 #18AWG (Black and White)
Output:	12", UL 1316 #22AWG (Red and Blue)
Dimming:	12" UL 1316/1430 #22AWG (Purple and Grey)

The diagram shows a side view of the LED module with a length of 135 mm. A top view shows a width of 29.5 mm and a height of 27.5 mm. Other dimensions include 7.7 mm, 14.8 mm, 7.5 mm, 243 mm, 227.7 mm, 212.8 mm, and 14.2 mm. Wire connections are labeled: Black and White for input; Red, Blue, Purple, and Grey for output.

WIRING DIAGRAM	LIFETIME vs CASE TEMPERATURE:																		
	<table border="1"> <caption>Lifetime vs Case Temperature Data</caption> <thead> <tr> <th>Case Temperature (°C)</th> <th>Lifetime (kHrs)</th> </tr> </thead> <tbody> <tr><td>30</td><td>120</td></tr> <tr><td>40</td><td>120</td></tr> <tr><td>50</td><td>115</td></tr> <tr><td>60</td><td>85</td></tr> <tr><td>70</td><td>55</td></tr> <tr><td>80</td><td>30</td></tr> <tr><td>90</td><td>15</td></tr> <tr><td>100</td><td>10</td></tr> </tbody> </table>	Case Temperature (°C)	Lifetime (kHrs)	30	120	40	120	50	115	60	85	70	55	80	30	90	15	100	10
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