

50 Watt Series CONSTANT CURRENT LED DRIVER



Green Watt Power
Division of Caltex Mfg. Co. Inc.

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Description

The GLC 50 Watt series provides a constant current power supply for use in LED applications. Provides a maximum of 50 watts continuous output with air convection.

- Universal AC Input / Full Range
- 100-277 VAC Input for North America
- CSA/UL Approved
- CE approved
- High Reliability
- Efficiency up to 90%
- Over Voltage Protection
- Short Circuit Protection
- Over Current Protection
- Over Temperature Protection
- Waterproof IP67
- RoHS Compliant
- 5 Year Warranty



Model Selection

Model Number	Output Current	Current Range	Voltage Range
GLC-01050-50	1.05 A	1.00 - 1.10 A	30 - 48 V
GLC-01400-50	1.4 A	1.33 - 1.47 A	20 - 36 V
GLC-01750-50	1.75 A	1.66 - 1.84 A	20 - 30 V
GLC-02100-50	2.1 A	2.00 - 2.21A	15 - 24 V
GLC-02800-50	2.8 A	2.66 - 2.74 A	12 - 18 V

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Specifications

Input Parameters			
Input Voltage Range*	MIN	100	VAC
*Designed to optimum performance at 110 and 220 nominal lines	TYP	230	
	MAX	277	
Input Frequency	TYP	47 - 63	Hz
Power Factor 110 VAC Input, Full Load 220 VAC Input, Full Load		0.95 0.90	
Input Current 110 VAC, Full Load 220 VAC, Full Load	MAX	0.9 0.45	A
Inrush Current 220 VAC/60Hz, Full Load Cold Start	MAX	30	A

Case Size	6.42" x 1.73" x 1.25" 163mm x 44mm x 31.75mm
Unit Weight	0.4Kg
Agency Approval Depending on Model	CSA File No. 256302 UL8750, 1st ed. UL1310, 5th ed. Class 2 CSA C22.2 No. 223-M91 CAN/CSA-C22.2 No. 60950-1-07, ANSI/UL 60950-1 2nd ed. CE Marked

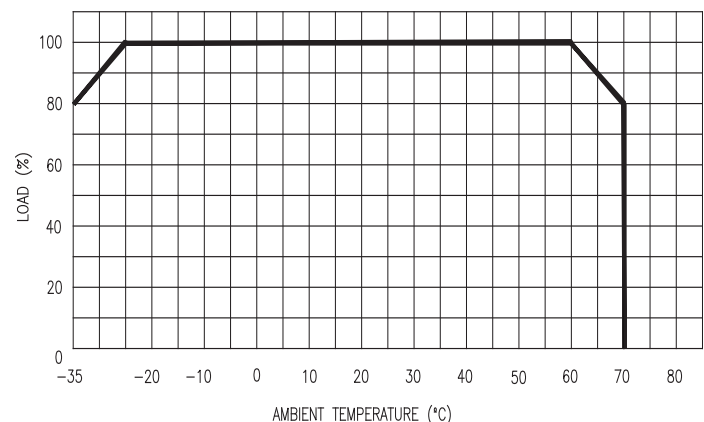
Output Parameters			
Noise & Ripple	MAX	5	%
Total Harmonic Distortion (THD)	MAX	<20	%
Setup Time 220VAC Input - Full Load	MAX	2	s
Rise Time (See Note 4)	MAX	200	ms
Overshoot and Undershoot Response (Power On/Off)	MAX	±10	%

General Specifications			
Short Circuit Protection	Recovers automatically after fault condition is removed		
Withstand Voltage			
Test Method: I/P - O/P	3750 VAC or 5303 VDC 1 MIN. ≤ 10 mA		
Test Method: I/P - FG	1875 VAC or 2651 VDC 1 MIN. ≤ 10 mA		
Test Method: O/P - FG	500 VAC or 707 VDC 1 MIN. ≤ 10 mA		
Withstand Impedance Test Method: I/P - O/P	500 VDC 10MΩ/min (at room temperature)		
Grounded Impedance	25A/3 SEC		
MTBF: (MIL-HDBK-217F 25°C)	≥ 200,000	Hours	
Temperature - Operating	MIN	-35	°C
	TYP	25	
	MAX	70	
Temperature - Storage	MIN	-40	°C
	TYP	25	
	MAX	85	

Notes:

- (1) Specifications are subject to change without notice.
- (2) Output Voltage will auto-adjust within the voltage range to provide the constant current as specified.
- (3) DC Output Ripple & Noise Test Conditions: Oscilloscope should be limited at 20 MHz bandwidth. At output terminals with parallel 0.1 µF ceramic and 22 µF electrolytic capacitors.
- (4) Rise Time - is change from 10% to 90% of rated load. The output voltages shall rise from 10% to 90% of their output voltage.
- (5) See Green Watt Power website for RoHS statement. www.greenwattpower.com/pdf/rohs.pdf

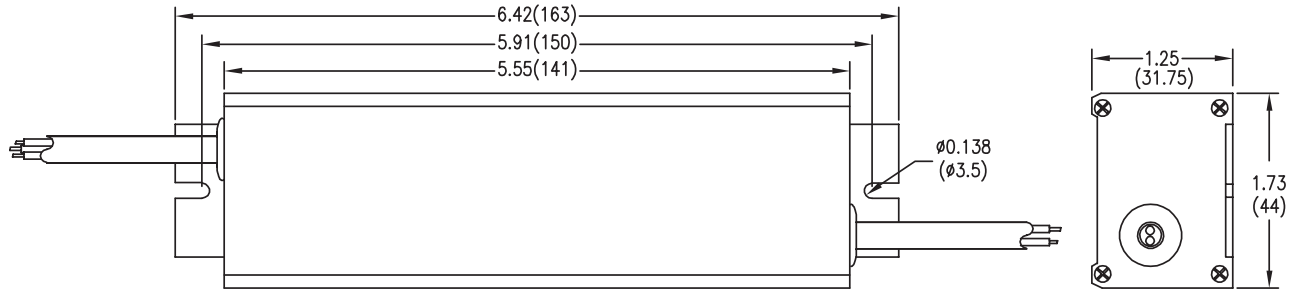
Derating Curves



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Case Specifications



All dimensions are inches (mm)

AC INPUT	DC OUTPUT
AC LINE - BLACK	+V OUT - WHITE
AC NEUTRAL - WHITE	- V OUT - BLACK
GND - GREEN	

Wire color may vary. See label for actual designation.