

# 100 Watt Series CONSTANT CURRENT LED DRIVER



**Green Watt Power**  
Division of Calnex Mfg. Co. Inc.

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## Description

The GLC 100 Watt series provides a constant current power supply for use in LED applications. Provides a maximum of 100 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-01750-100	1.75 A	1.66 - 1.84 A	35 - 53 V
GLC-02100-100	2.1 A	2.00 - 2.20 A	32 - 48V
GLC-02450-100	2.45 A	2.33 - 2.57 A	26 - 40 V
GLC-02800-100	2.8 A	2.66 - 2.94 A	24 - 36 V
GLC-03200-100	3.2 A	3.04 - 3.36 A	20 - 30 V
GLC-04200-100	4.2 A	4.00 - 4.45 A	15 - 24 V

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## Specifications

Input Parameters			
Input Voltage Range* *Designed to optimum performance at 110 and 220 nominal lines	MIN TYP MAX	100 230 277	VAC
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	1.2 0.6	A
Inrush Current 220 VAC/60Hz, Full Load Cold Start	MAX	30	A

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

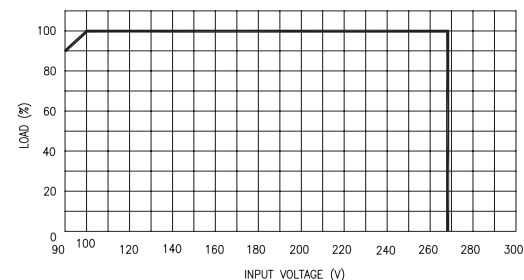
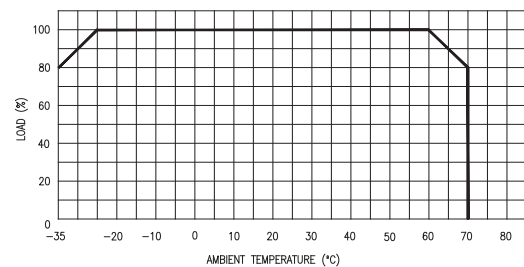
General Specifications	
Short Circuit Protection	Recovers automatically after fault condition is removed
Withstand Voltage	
Test Method: I/P - O/P	3750 VAC or 5300 VDC 1 MIN. ≤ 10 mA
Test Method: I/P - FG	1875 VAC or 2650 VDC 1 MIN. ≤ 10 mA
Test Method: O/P - FG	500 VAC or 700 VDC 1 MIN. ≤ 10 mA
Withstand 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 TYP MAX	-35 25 70	°C
Temperature - Storage	MIN TYP MAX	-40 25 85	°C
Case Size	6.61" x 3.15" x 1.65" 168mm x 80mm x 42mm		
Unit Weight	0.4Kg		
Agency Approval	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		

### 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](http://www.greenwattpower.com/pdf/rohs.pdf)

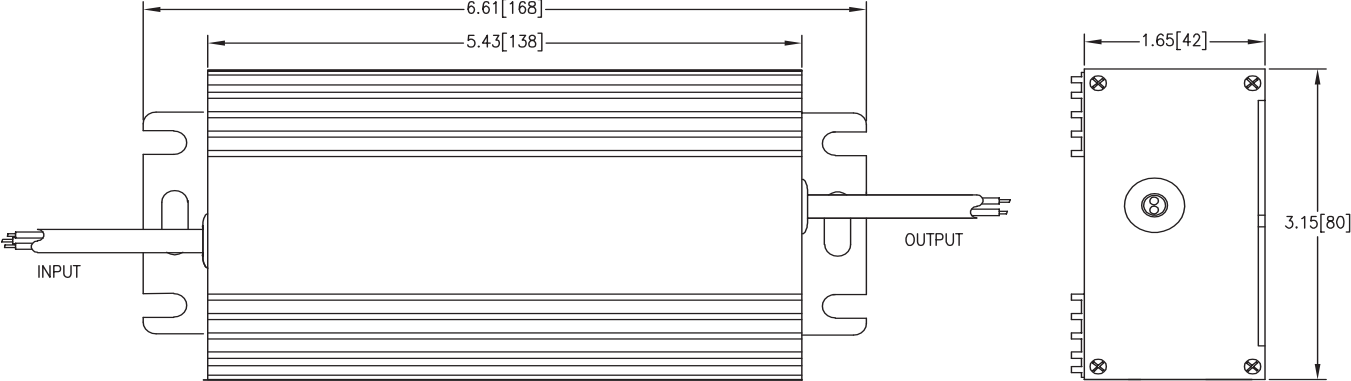
## Derating Curves



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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.