



Constant Voltage 50 Watt LED Driver

The GLV50 constant voltage 50 W driver comes in a smart and compact form factor making it an ideal power supply for a wide range of LED lighting application.

With universal 90-305 V_{AC} input and user-adjustable output voltage setting, this power supply provides the widest flexibility available on market. This Series is CB, UL/cUL certified and comes with a three years warranty.

GLV 50

Constant Voltage 50 Watt LED Driver



Model Selection Key

GLV 50-BCV-D

SWO: Outdoor version

SWI: Indoor version

B:1 channel output;

C:Max Vout; V:Voltage

Max Output Power

Series Name

Features

- Universal AC Input
- Up to 88% Efficiency
- User adjustable output voltage
- Active Power Factor Correction, PF>0.9
- Built-in protection: SCP, OVP, OCP
- UL Class I and II, cUL, CE, FCC Title 47 CFR 15 Class B.
- Up to 3 Years Warranty

Model Number	Input Voltage Range (V _{AC})	Channel(s) Output	CV Output				Max Output Power (W)	Rated Output Power (W)	
			Preset Max. Vout (V _{DC})	Voltage Pot Adjustable Range (V _{DC})		Loading Current Range (I _{out})			
				min	max	min			max
GLV50-112V- <input type="checkbox"/>	90-305V	1	12	6.0	12.6	0.0	4.00	48	50
GLV50-115V- <input type="checkbox"/>	90-305V	1	15	7.5	15.8	0.0	3.50	53	55
GLV50-124V- <input type="checkbox"/>	90-305V	1	24	12.0	25.2	0.0	2.00	48	50
GLV50-136V- <input type="checkbox"/>	90-305V	1	36	18.0	37.8	0.0	1.40	50	50
GLV50-148V- <input type="checkbox"/>	90-305V	1	48	24.0	50.4	0.0	1.00	48	50

= SWI: Indoor Version or SWO: Outdoor Version

Input Specification

Voltage Range	Frequency Range	Vmax Inrush Current	Power Factor	THD
90-305V _{AC}	47-63 Hz	Cold start-up:<30Amp peak@120V _{AC} , 25°C	0.9 min	<20% @ Full load

Output Specification

Max Power	50 W	Constant Voltage Adjustable Range	50%/- 105% of normal Vout
Line Regulation	+/- 1% (AC Input)	Noise/Ripple	<10% of Rated Output Volts (Note: All noise measurements made at the output terminals, connected to a 20Mhz low pass filter)
Output Voltage Regulation	+/- 5% Max	Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition
Efficiency	88%	Over Voltage Protection	CV Condition
Start-up Time	1 sec. Typical	Over-current Protection (OCP)	CC Condition
Hold-up Time	0.5mS @ full load, 100 V _{AC} Input	Transient Response	5mS, Full load to Half load, 100V _{AC}

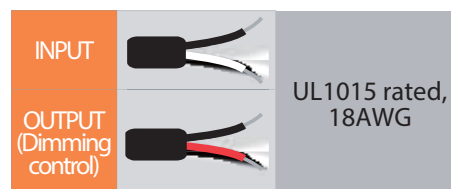
* All noise measurements made at the output terminals, connected to a 20MHz low pass filter.

Environmental Specifications

MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity	Weatherability
80,000 hours (Full Load @ 25°C ambient, Based on MIL-217F)	Convection	-25°C to 50°C(SWI) -40°C to 60°C(SWO) (Full load)	-40°C to 85°C	5% - 95 %	IP 65 (SWO)

Compliance / Safety

EMI/RFI	ISPR-22 Class B IEC 61547, IEC 61000-3-2 IEC 61000-3-3, EN55015
Safety Agencies	UL/CUL 1012/1310 /1585 UL8750 UL879 CE CE (IEC61347-1, IEC61347-2-13) CCC, SAA
Weatherability	EN60529 IP 65 versions available



Expected Life-time*

Model	SWO	SWI
Ta	60°C	50°C
Tc	80°C	70°C
Life-time	50,000h	50,000h

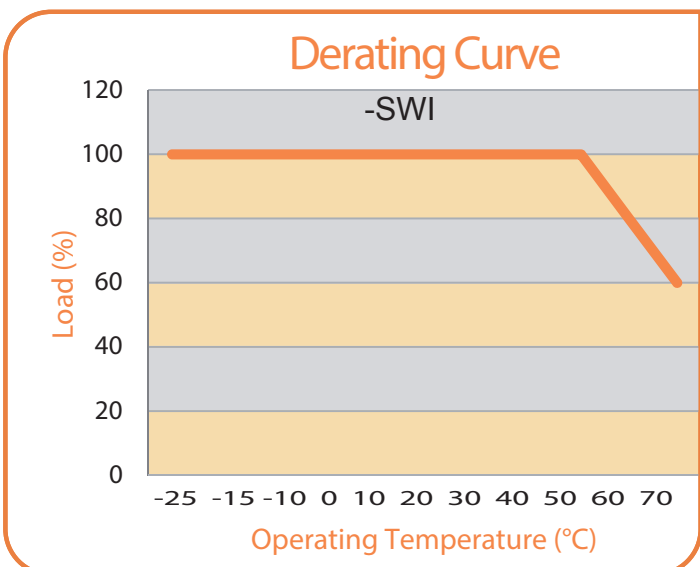
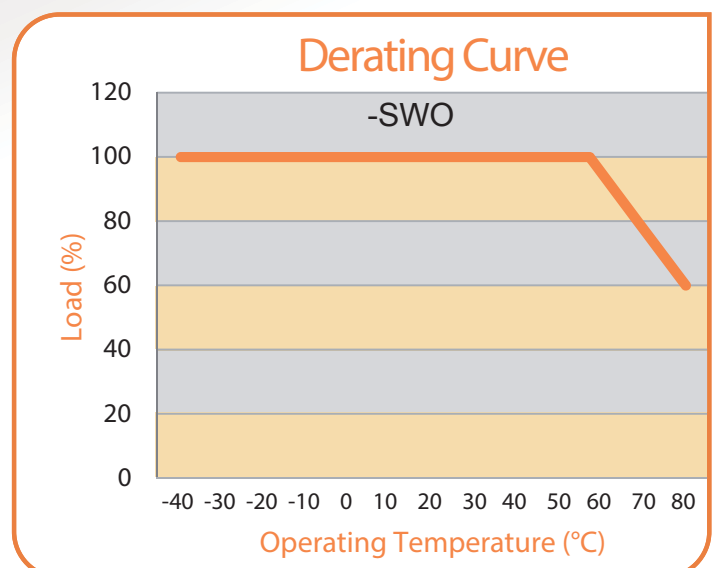
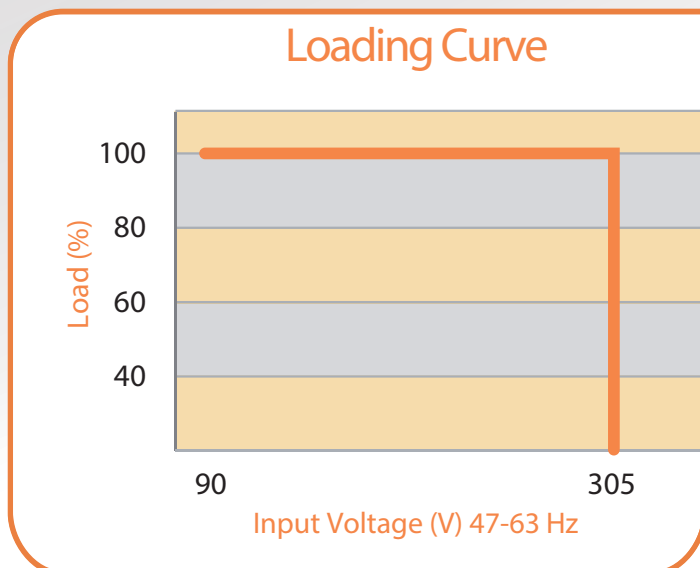
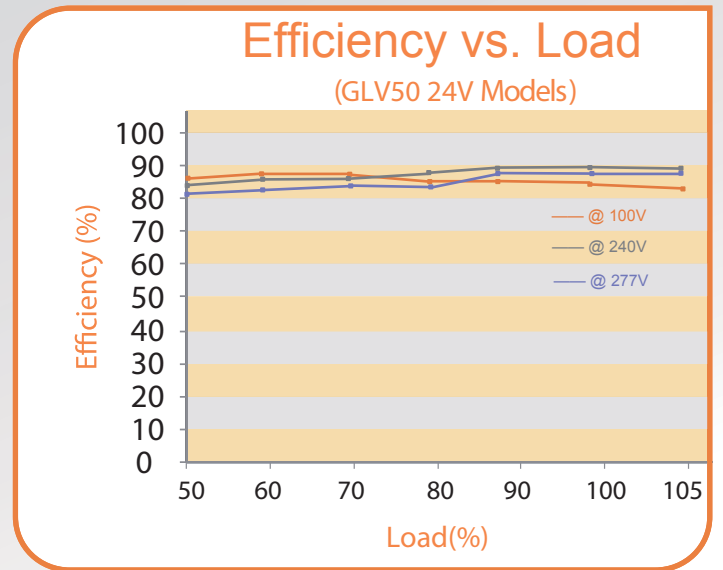
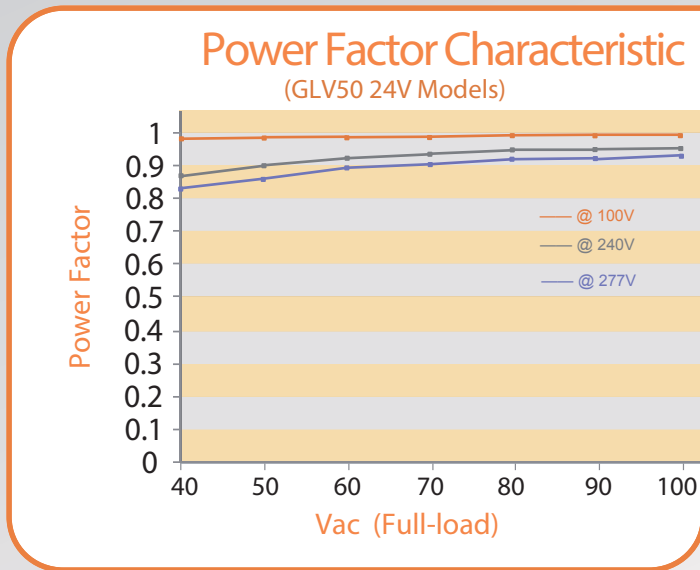
*: @ Full load, based on a failure rate of < 10%
Tc location, refer to Mechanical Diagrams.

Mechanical

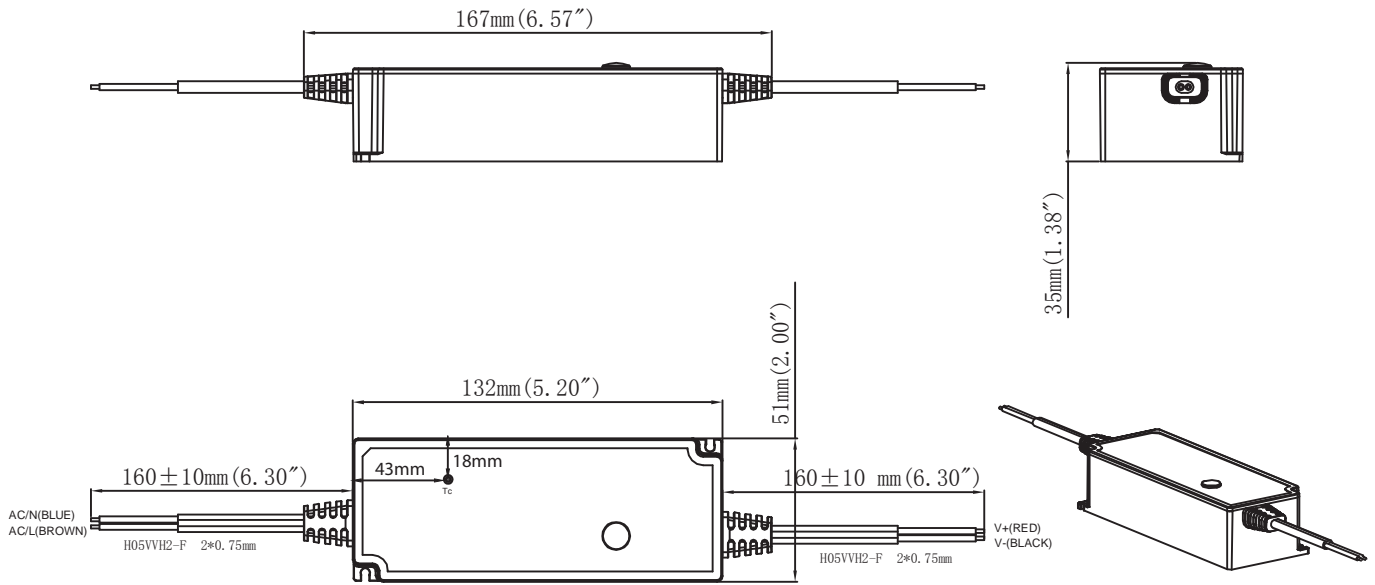
Case Design/ Materials

All versions come in a fully Isolated Class 2 Plastic housing. – SWO is fully potted for IP 65 applications.

Performance Curves



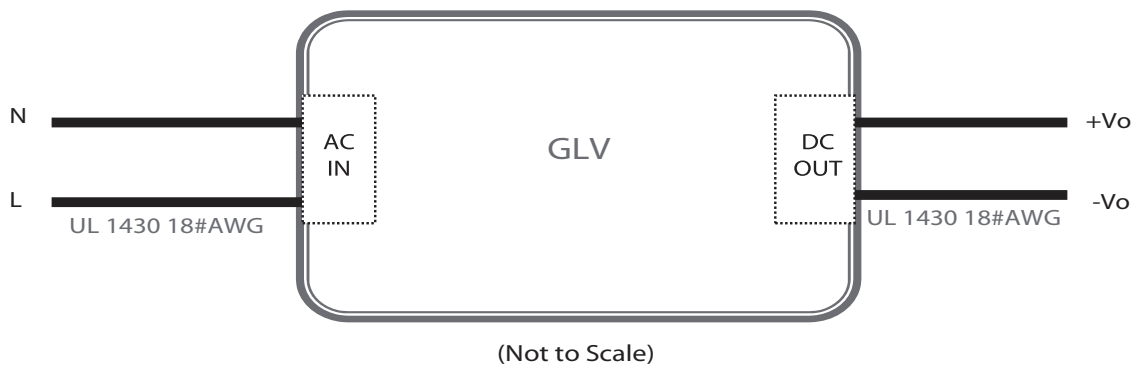
Model Description and Mechanical Diagrams



Packing Information

Weight: 0.380 kg/pcs, 15.5 kg/carton
 40 pcs/carton; L431xW283xH247 (mm)

Wiring Diagrams



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