GLV 35

Constant Voltage 35 Watt LED Driver

Model Selection Key

GLV 35-BCV-D

- SWC: Compact form housing
- SWR: With add-on strain relief
- B:1 channel output;
- C:Max Vout; V:Voltage
- Max Output Power
- Series Name

Constant Voltage 35 Watt LED Driver

The GLV35 is a constant voltage 35 Watt LED Driver designed to give maximum flexibility and performance for indoor luminaire fixtures. This model's unique modular power platform architecture allows it to be easily upgraded with various dimming functionalities with snap on dimming module add-ons. Use GLD-DIMxx-CV type dimming module add-on for CV mode dimming and GLD-DIMxx-CC type dimming module add-on for CC mode operation and dimming.

Features

- Universal AC Input
- Up to 90% Efficiency
- Independent type with terminal block connectors
- Dimming options (0/1-10V, Switch, DALI) with GLD-DIM dimming module add-on
- Available in its compact form or with an add-on strain relief
- Active Power Factor Correction, PF > 0.9
- Built-in protection: SCP, OTP, OVP, OCP
- UL / cUL, FCC Title 47 CFR 15 Class B, CB, CE, ENEC, SAA
- Up to 5 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})	Loading Current Range (Iout)			
				min	max		
GLV35-112V- ☐	90-305V	1	12	0.0	2.80	34	35
GLV35-115V- ☐	90-305V	1	15	0.0	2.20	33	35
GLV35-124V- ☐	90-305V	1	24	0.0	1.40	34	35
GLV35-136V- ☐	90-305V	1	36	0.0	1.05	38	40
GLV35-148V- ☐	90-305V	1	48	0.0	0.70	34	35

☐= SWC : Compact form housing with terminal block connectors or SWR : With add-on strain-relief

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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	35 W	Noise/Ripple	<10% of Rated Output Volts (Note: All noise measurements made at the output terminals, connected to a 20Mhz low pass filter)
Line Regulation	+/- 1% (AC Input)	Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition
Output Voltage Regulation	+/- 5% Max	Over Voltage Protection	CV Condition
Efficiency	90%	Over-current Protection (OCP)	CC Condition
Start-up Time	1 sec. Typical	Transient Response	5mS, Full load to Half load, 100V_{AC}
Hold-up Time	0.5mS @ full load, 100 V_{AC} Input		

* 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 (Full load)	-40°C to 85°C	5% - 95 %	IP 20

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 ENEC(EN62384,EN61347-2-13) CE (IEC61347-1, IEC61347-2-13) SAA

Connectors

AC Input	Nature(N), Nature(N)--for daisy chain Live(L), Live(L)--for daisy chain
DC Output	V+, V-

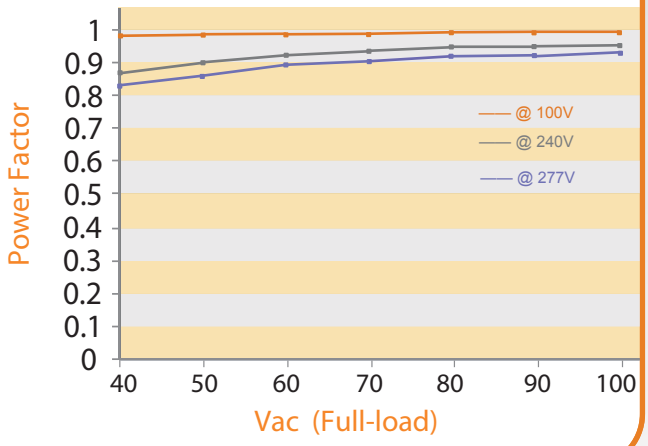
Mechanical

Case Design	Polycarbonate white
Maximum torque (fixing)	0.4Nm/M2
Terminal block screw torque	0.3Nm/M2.6

Performance Curves

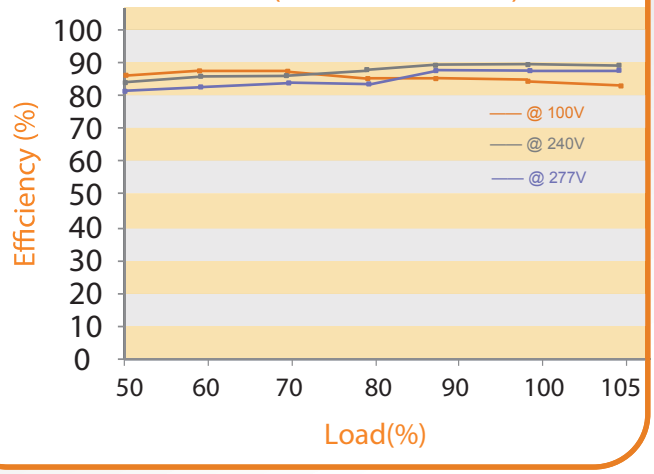
Power Factor Characteristic

(GLV35 24V Models)

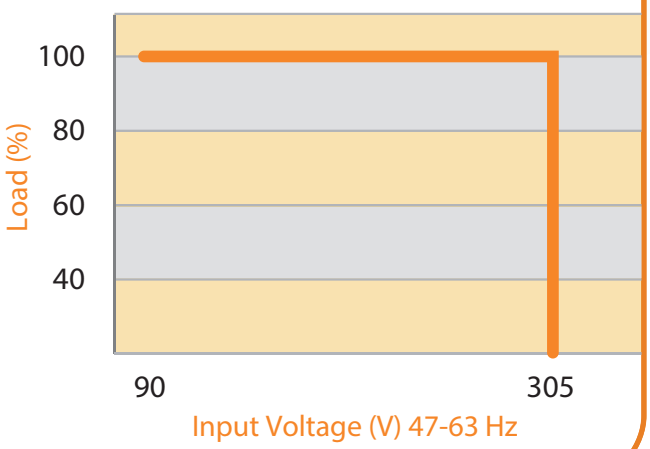


Efficiency vs. Load

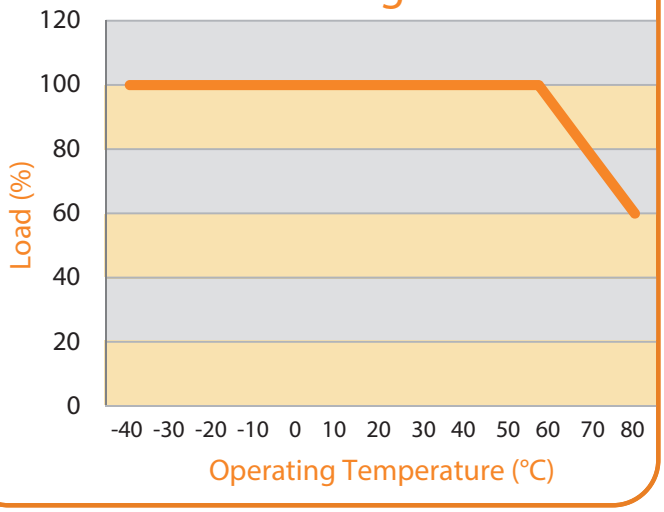
(GLV35 24V Models)



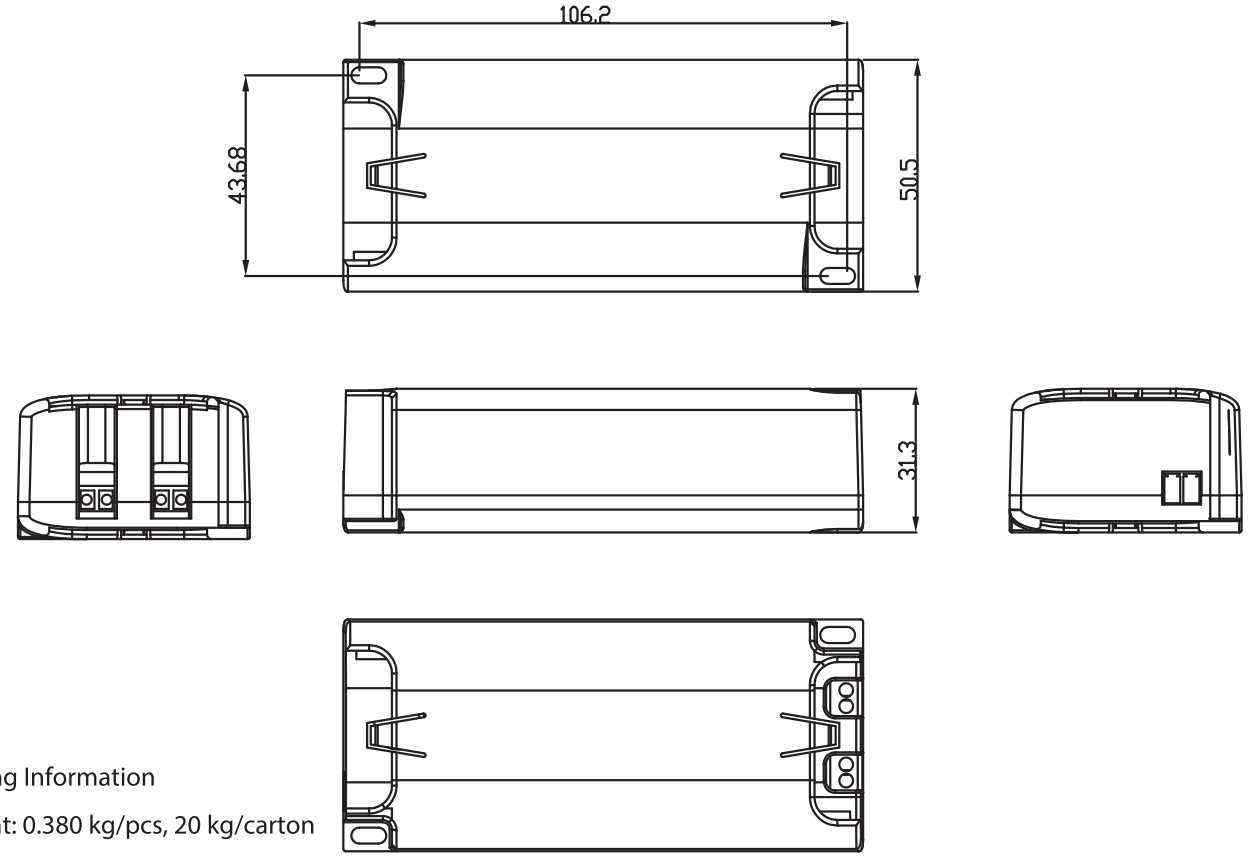
Loading Curve



Derating Curve



Model Description and Mechanical Diagrams

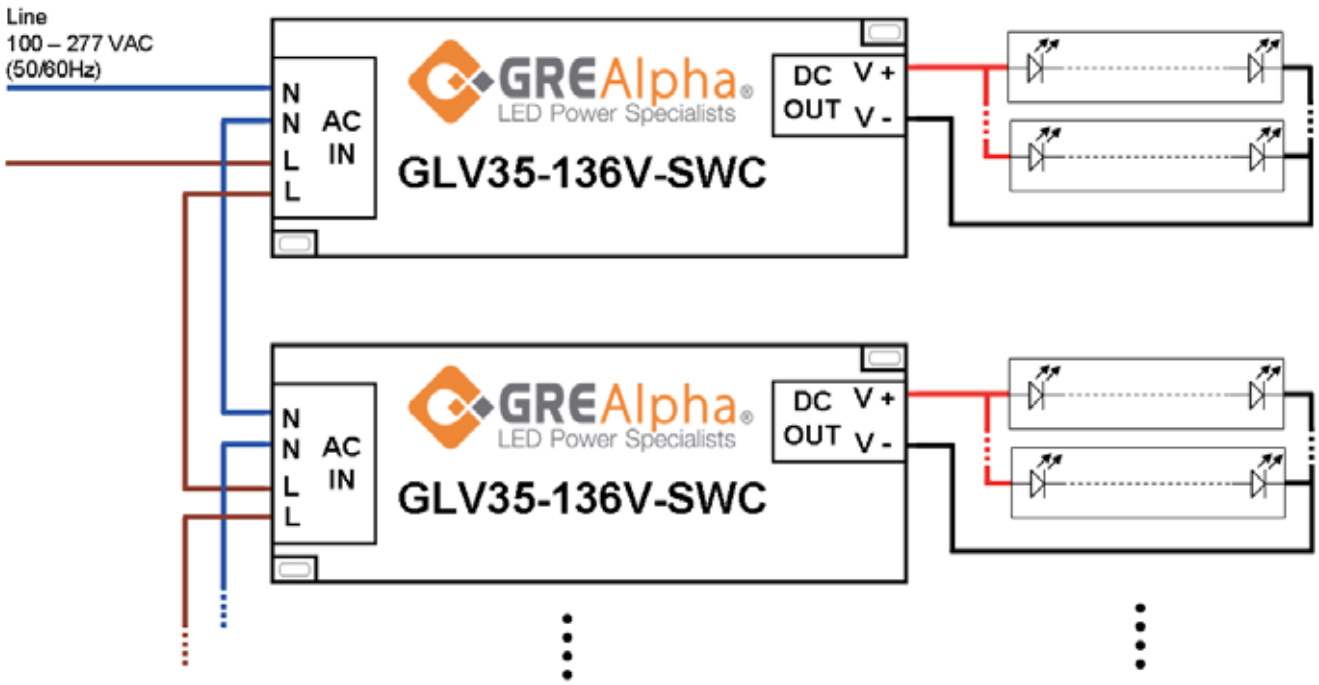


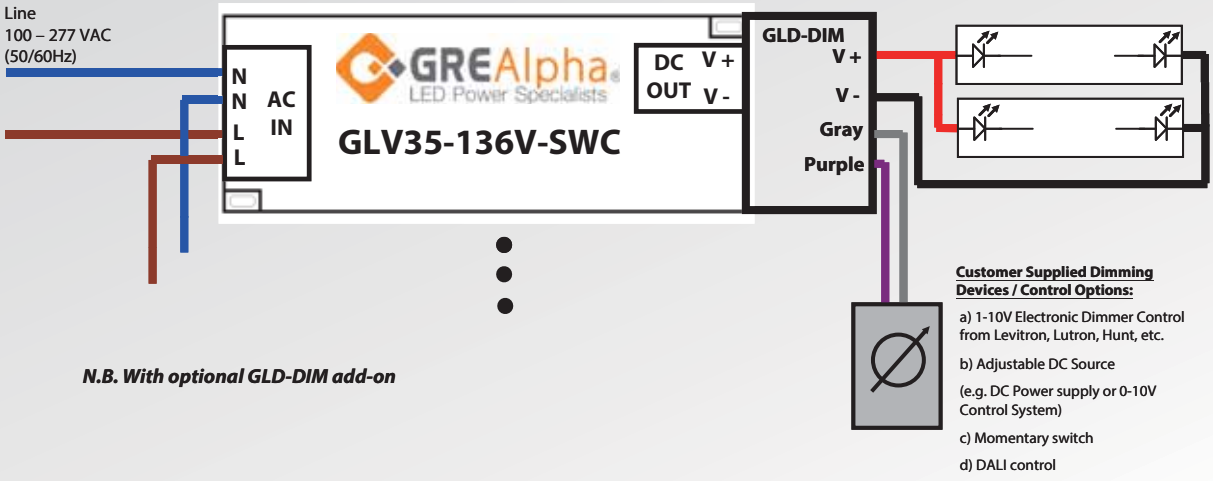
Packing Information

Weight: 0.380 kg/pcs, 20 kg/carton

50 pcs/carton; L441xW366xH223 (mm)

Wiring Diagrams





N.B. With optional GLD-DIM add-on

Wiring Instructions

1) Installation of the GLV35 series power unit requires the proper wiring connection of both the AC terminal block to the AC facility power, and the DC terminal block to the LED lighting system (or to the optional dimming module such as GLD-DIM add-on). (**Note: All electrical wiring should comply with local and national electrical codes. Installation should be performed by qualified electrical service personnel.**)

2) Connect the AC source wires to the GLV35 power unit's AC input terminal blocks using a slot type screwdriver. Refer to the rating label a˜xed on the GLV35 power unit for AC wire connection. The "L" terminal block from the GLV35 unit should connect to the incoming AC Line wire. The "N" terminal block from the GLV35 unit should connect to the incoming AC Neutral wire. The additional L and N connector is for daisy chain to other LED drivers.

3) Connect the GLV35 unit DC output to the LED lighting system by connecting the LED lighting system input wires to the GLV35 unit's DC output V+ and V- terminal blocks using a slot type screwdriver. Refer to the rating label a˜xed on the GLV35 power unit for DC wire connection. The V- terminal block from the GLV35 unit should connect to the lighting system's DC negative input, '-'. The V+ terminal block from the GLV35 unit should connect to the lighting system's DC positive input, '+'.

4) Once all wiring is completed, turn on the AC supply to check for proper LED lighting system operation.