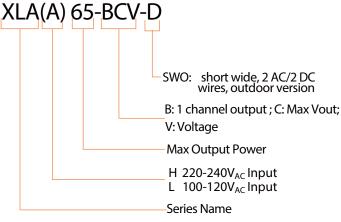


XLA65 Forward/Reverse Phase Dimmable LED Driver

Model Selection Key





Class 2 65W Constant Current Dimmable LED Driver

The XLA65 is a TRIAC/ELV dimmable LED driver which offers maximum dimming performance and the widest dimming compatibility in the market today. Incorporating proprietary smart-dim technology, the XLA65 provides flicker-free, 0-100% dimming and has been tested to work with over 60 brand name dimmers on the market. Rated IP 66, XLA 65 comes in unique long-slim form factor, making it suitable for a wide variety of LED illumination applications.

Features

- Best-in-class TRIAC/ELV dimmable LED power supply
- 0-100% flicker-free dimming
- Unique Long- Slim form factor for width constrained space applications
- Compatible with over 60 brand name TRIAC/ELV dimmers on the market
- IP 66 Rated
- UL/cUL CE, FCC approved
- Up to 3 Years Warranty

Applications

- Down-lights
- Light Panels
- Office General Illumination
- Retrofit Lighting
- Residential Lighting
- Signage
- Spotlights
- Tube lighting (driver-less)

| | | | | CC Outpu | ıt | | |
|-------------------|-------------------|----------------------|--|----------|------|--|----|
| Model Number | | Channel(s) Output | lout Nominal Vou Compliance Volta (Per Channel) (V _{DC}) (V _{DC}) | | 9 | Max Output Power (Per Channel) (W) | |
| 100-1201/c Input | 200-24ØAc Input | | | Тур | min | max | |
| XLA(L)65-115V-SWO | XLA(H)65-115V-SWO | 1 | 3.00 | 15 | 11.0 | 15.8 | 47 |
| XLA(L)65-118V-SWO | XLA(H)65-118V-SWO | 1 | 3.00 | 18 | 13.2 | 18.9 | 57 |
| XLA(L)65-124V-SWO | XLA(H)65-124V-SWO | 1 | 2.10 | 24 | 17.6 | 25.2 | 53 |
| XLA(L)65-130V-SWO | XLA(H)65-130V-SWO | 1 | 1.5 | 30 | 21.0 | 31.5 | 50 |
| XLA(L)65-136V-SWO | XLA(H)65-136V-SWO | 1 | 1.50 | 36 | 26.5 | 37.8 | 57 |
| XLA(L)65-142V-SWO | XLA(H)65-142V-SWO | 1 | 1.40 | 42 | 30.9 | 44.1 | 62 |
| XLA(L)65-148V-SWO | XLA(H)65-148V-SWO | 1 | 1.05 | 48 | 35.3 | 50.4 | 53 |
| XLA(L)65-160V-SWO | XLA(H)65-160V-SWO | 1 | 1.00 | 60 | 44.1 | 63.0 | 63 |
| XLA(L)65-172V-SWO | XLA(H)65-172V-SWO | 1 | 0.80 | 72 | 52.9 | 75.6 | 61 |
| XLA(L)65-185V-SWO | XLA(H)65-185V-SWO | 1 | 0.70 | 85 | 62.5 | 89.3 | 63 |

* UL marking: for products manufactured in Vietnam only, effective October 2020.



Input Specification

| Voltage Range | Frequency Range | Max Inrush Current | | Max Input Current: | THD |
|---|--------------------|---|---------|-----------------------|---------------------|
| XLA(L) Low Input: 100-120V _{AC} XLA(H) High Input: 200-240V _{AC} | 47-63 Hz | XLA(L): 30A @ 120V _{AC} Input, 25 °C, cold start-up XLA(H): 60A @ 230V _{AC} Input, 25°C, cold start-up | 0.9 min | | <20% @ Full load |

Output Specification

| Carparop | centeactori | | |
|-----------------------|--|---|---|
| Max Power | 65 W | Auto-compliance Output Voltage Range | +5%/- 30% Max |
| Line Regulation | +/- 5% Max | Noise/Ripple | 5% of Rated Output Voltage* |
| Current Regulation | +/- 5% Max | Short Circuit Protection | Hiccup-Mode, Auto-Recovery upon removal of short circuit condition. |
| Efficiency | 80% Typ. @ Full Load, 230V _{AC} | Over Voltage Protection | 135% Max |
| Start-up Time | 3.0 sec. Typical | Over-current Protection (OCP) | Constant-current limiting |
| Hold-up Time | 0.5mS @ full load, 100V _{AC} input | Output Current Regulation | +/-5% Max |

* 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 | | |
| 80,000 hours (Full load @ 25°C Ambient, Based on MIL-217F) | Convection | -25°C to 60°C (Full load) | -40°C to 80°C | 5% - 95% | | |

Compliance / Safety

| EMI/RFI | ISPR-22 Class B FCC part 15 Class B EN55015, EMC |
|----------------|--|
| Safety Agency | UL 1012, 1310 Class 2, UL 8750, UL 879, CSA C22.2 No.107.1 CE(IEC/EN61347-1, IEC/EN61347-2-13) |
| Weatherability | IP 66 |

Mechanical

Material:

UV Rated Polycarbonate Plastic UL 94 V2/ Black/Dark Blue/ Potted

| Expected Life-time*-swo | | | | | |
|-------------------------|---------|---------|--|--|--|
| Tc 60°C 75°C | | | | | |
| Life-time | 50,000h | 30,000h | | | |

*: @ Full load, based on a failure rate of < 10%

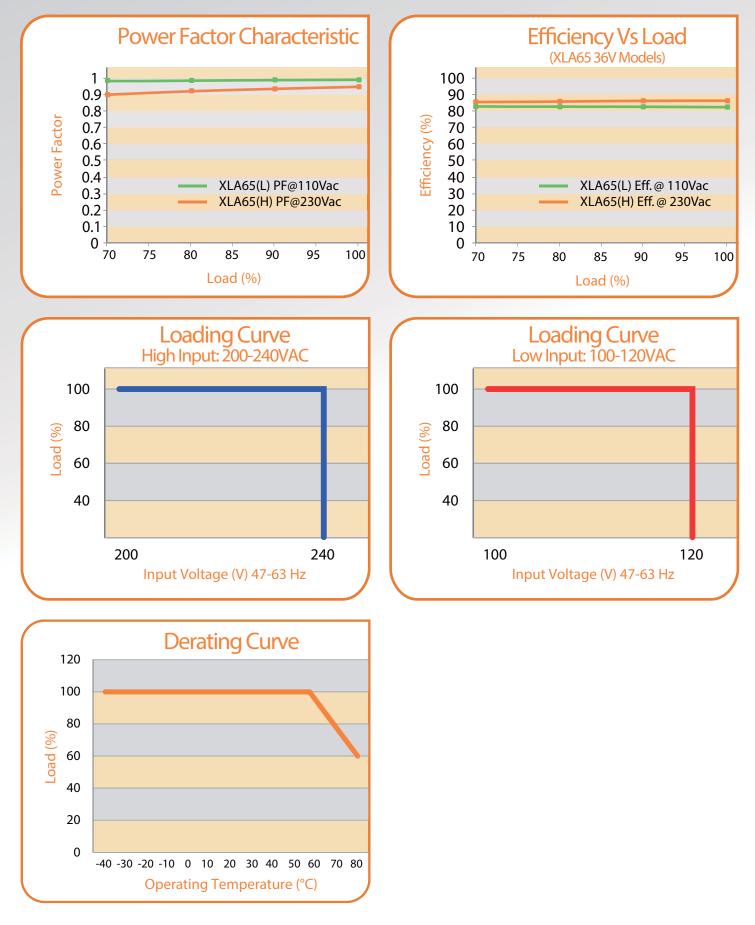
Supported Dimming Options:

TRIAC/ ELV (Trailing/Leading Edge)/ SCR





Performance Curves





Supported Dimmer List

100~120V_{AC} ELV (Trailing Edge) & Triac (Leading Edge) Dimmer

| Brand | Model | Dimmer Rating Power (max) | LED Flicker Free Test * |
|-----------------------|--|------------------------------|-------------------------|
| Cooper Wiring Devices | RI061-A (Rotary Dimmer w/ Non-Preset) | 600W | Pass |
| Cooper Wiring Devices | 6001 | 600W | Pass |
| Cooper Wiring Devices | SLC03P (C/L) | 600W | Pass |
| Cooper Wiring Devices | SI06P (non C/L) | 600W | Pass |
| GE | DI61-271 | 600W | Pass |
| GE | DIB61-71 | 600W | Pass |
| GE | DIT61-71 | 600W | Pass |
| GE | DIT61-S71 | 600W | Pass |
| Gira | 1184 | 400W | Pass |
| Legrand | RS-100BA-W-CS (Wattstopper occupancy sensor) | 500W | Pass |
| Leviton | 6602-IW | 600W | Pass |
| Leviton | L02-700-W | 600W | Pass |
| Leviton | L12-6641-W | 600W | Pass |
| Leviton | No.6641 (Toggle Dimmer) | 600W | Pass |
| Leviton | No.6683-IW (3-Way Push On/Off Dimmer) | 600W | Pass |
| Leviton | R12-6631-LW | 600W | Pass |
| Lutron | DVCL-153PL (C/L) | 600W | Pass |
| Lutron | TGCL-153P (C/L) | 600W | Pass |
| Lutron | AB-600M-WH (Abella) | 600W | Pass (##) |
| Lutron | D-600RH-DK (Rotary) | 600W | Pass |
| Lutron | D-600R-WH (Rotary) | 600W | Pass |
| Lutron | D-603PG-WH (Rotary) | 600W | Pass |
| Lutron | GL-603PH-DK (GLYDER - 3-way) | 600W | Pass |
| Lutron | GL-600-WH (Glyder) | 600W | Pass (##) |
| Lutron | MA-600GH-WH (Ecodim Digital with indicator leds) | 500W | Pass (##) |
| Lutron | MIR-600THW-WH (RC Digital Fade Dimmer) | 600W | Pass |
| Lutron | MS-VP600GHW-WH (Vacancy Sensor w/ eco-dim Dimmer) | 600W | Pass(##) |
| Lutron | S-600PH-WH (SKYLARK) | 600W | Pass |
| Lutron | SELV-300PH-WH (SKYLARK - Single Pole) | 300W | Pass |
| Lutron | TG-600PH-WH (Toggler) | 600W | Pass |
| Lutron | TG-603PFH-WH (Toggler - eco-dim) | 600W | Pass |
| Lutron | TT300NLH-BL | 600W | Pass |
| Lutron | TT-300NLH-BL | 300W | Pass |
| Lutron | D-600PH-DK (non C/L) | | |

Remarks:

* - Flicker tests were carried out to ensure full range, flicker-free dimming from min to full load. The XLA series offers the industry's only full-range 0-100% dimming. This is a representative list of dimmers only. GRE Alpha makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Refer to dimmer manufacturers for further information on LED compatibility.
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company.

- 5-100% dimming range.

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Supported Dimmer List

220~240V_{AC} ELV (Trailing Edge) & Triac (Leading Edge) Dimmer

| Brand | Model | Dimmer Rating Power (max) | LED Flicker Free Test * |
|-------------------|------------|---------------------------|-------------------------|
| Air-Lux (Key-Top) | AL-18 | 600W | Pass |
| BG-British | BG General | 400W | Pass |
| Brennenstuhl | RD300 | 300W | Pass |
| Busch | 6513U-102 | 420W | Pass |
| Bush-Jaeger | 2247U | 500W | Pass |
| Bush-Jaeger | 2250U | 600W | Pass |
| Bush-Jaeger | 6519U | 550W | Pass |
| Clipsal | 32E450UDM | 450W | Pass |
| Clipsal | E32V500/2K | 500W | Pass |
| Clipsal | KB31RD400 | 400W | Pass |
| Ehmann | 4660 | 315W | Pass |
| Ehmann | 10UP-kpl | 300W | Pass |
| Ehmann | 39 Domus | 500W | Pass |
| Everflourish | EFO700D | 300W | Pass |
| Gira | 1184 | 400W | Pass |
| HPM | CAT700T | 700W | Pass |
| Italy | DG04027 | 400W | Pass |
| JingNeng | JN2301 | 300W | Pass |
| KEY-TOP | DP-81 | 600W | Pass |
| Legrand | V8051 | 600W | Pass |
| LK | DG07103 | 400W | Pass |
| Meierte | PDDT | 630W | Pass |
| МК | S1535 | 1000W | Pass |
| МК | SX8501 | 500W | Pass |
| Opus | 852.39 | 400W | Pass |
| Opus | 852.392 | 500W | Pass |
| ShitoneSB | DIM | 300W | Pass |
| Super Star | BP-200 | 200W | Pass |
| T&J | P2037S | 630W | Pass |

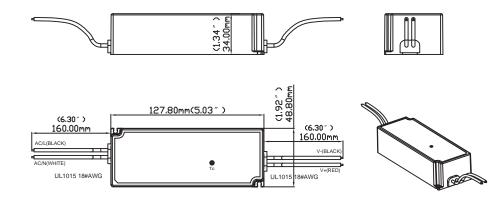
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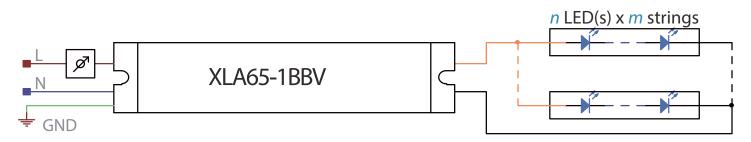
Mechanical and Wiring Diagrams





Packing Information for SWO: Weight: 0.320 kg/pcs, 20.4 kg/carton 60 pcs/carton; L415xW367xH218 (mm)

Configuration Arrays



| Model Output Voltage | Compliance Voltage Range (V) | Recommended n LED(s) per String * | Current POT Adjust Range (A) |
|---------------------------|---------------------------------|--------------------------------------|---------------------------------|
| 5 8 | 3.98-5 | . 2 6 3 3 - | 7 1 0 7 . 0 |
| 2 7 | 6.57-9 | . 2 5 8 2 - | 4 1 0 8 . 0 |
| 0 6 | 0.36-1 | . 4 4 3 2 - | 2 1 0 0 . 1 |
| 8 4 | 4.05-3 | . 5 3 8 1 - | 9 5 0 . 1 |
| 2 4 | 1.44-9 | . 0 3 6 1 - | 8 0 4 . 1 |
| 6 3 | 8.73-5 | . 6 2 4 1 - | 7 0 5 . 1 |
| 4 2 | 2.52-6 | . 7 1 9 - 4 | 0 1 . 2 |
| 8 1 | 9.81-2 | . 3 1 7 - 3 | 00.3 |
| 5 1 | 8.51-0 | . 1 1 5 - 3 | 00.3 |
| * LED Vf range: 2.7-3.6 V | | | |

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