



Class 2 28W Constant Current dimmable LED Driver

The XLA28 is a TRIAC/ELV dimmable LED driver which offers maximum dimming performace and the widest dimming compatibility in the market today. Incorporating propriety smart-dim technology, the XLA28 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 28 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)

XLA28 Forward/Reverse Phase Dimmable LED Driver



Model Selection Key XLA(A) 28-BCV-D SWI: short wide, indoor versi

SWI: short wide, 2 AC/2 DC wires, indoor version
SWO: short wide, 2 AC/2 DC

SWO: short wide, 2 AC/2 DC wires, outdoor version

B: 1 channel output; C: Max Vout;

V: Voltage

Max Output Power

H 220-240V_{AC} Input L 100-120V_{AC} Input

Series Name

			CC Output			Max Output	
Model Number		Channel(s) Output	(Per Channel)	Nominal Vout (V _{DC})	Compliance Voltage (V _{DC})		
100-120 ¼ _C Input	200-240 V _C Input		(A)	Тур	Min	Max	(W)
XLA(L)28-112V (A)	XLA(H)28-112V(A)	1	2.10	12	8.8	12	26
XLA(L)28-112V (B)	XLA(H)28-112V(B)	1	2.00	12	8.8	12	25
XLA(L)28-115V	XLA(H)28-115V	1	1.80	15	11.0	15	28
XLA(L)28-118V	XLA(H)28-118V	1	1.50	18	13.2	18	28
XLA(L)28-120V	XLA(H)28-120V	1	1.40	20	14.7	20	29
XLA(L)28-124V	XLA(H)28-124V	1	1.20	24	17.6	24	30
XLA(L)28-128V	XLA(H)28-128V	1	1.00	28	20.6	28	29
XLA(L)28-136V	XLA(H)28-136V	1	0.70	36	26.5	36	26
XLA(L)28-142V	XLA(H)28-142V	1	0.70	42	30.9	42	31
XLA(L)28-148V	XLA(H)28-148V	1	0.50	48	35.3	48	25
XLA(L)28-160V	XLA(H)28-160V	1	0.48	60	44.1	60	30
XLA(L)28-172V	XLA(H)28-172V	1	0.40	72	52.9	72	30
XLA(L)28-181V	XLA(H)28-181V	1	0.35	81	59.5	81	29

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



Input Specification						
Voltage Range	Frequency Range	Max Inrush Current	Power Factor	Max Input Current:		
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	0.6 A @ 115 V _{AC} Input		

Output Specification					
Max Power	28 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	0.5 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(Outdoor) -25°C to 50°C(Indoor)	-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

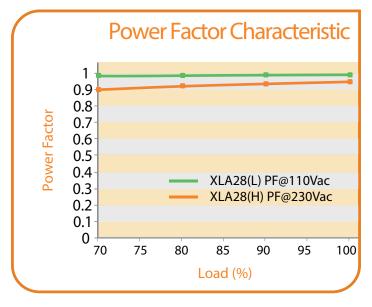
Supported Dimming Options:

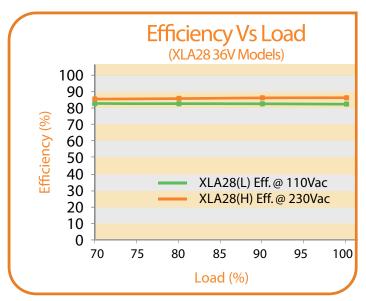
TRIAC/ ELV (Trailing/Leading Edge)/ SCR

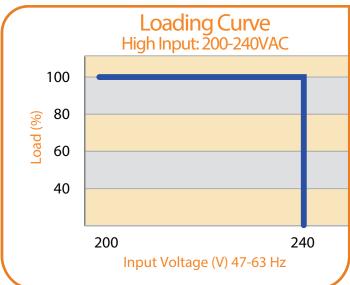


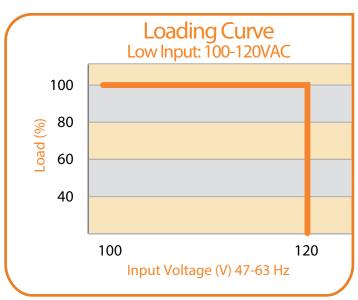


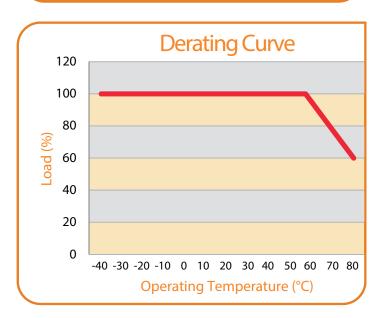
Performance Curves













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	Maestro C-L MACL-153M	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:

- Lutron, Leviton, Legrand, Cooper and their product brand names are registered trademarks of each respective company.

- 5-100% dimming range.

^{* -} 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.



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
НРМ	CAT700T	700W	Pass
ltaly	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
MK	S1535	1000W	Pass
MK	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

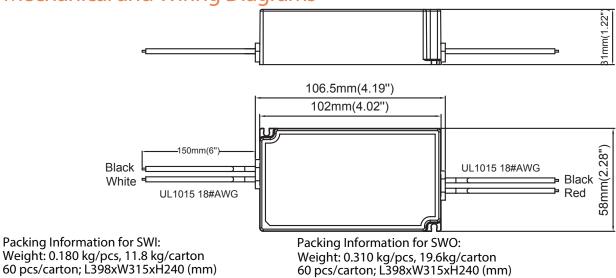
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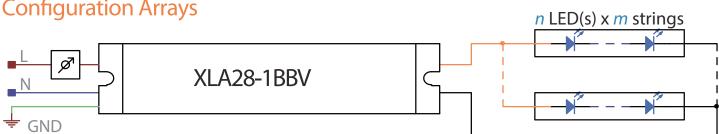
⁻ The above dimmer brand names are registered trademarks of each respective company.



Mechanical and Wiring Diagrams



Configuration Arrays



Model Output Voltage	Compliance Voltage Range (V)	Recommended n LED(s) per String *	Current POT Adjust Range (A)
81	59.5-85.1	16 - 31	0.35
72	52.9-75.6	14 - 28	0.40
60	44.1-63.0	12 - 23	0.48
48	35.3-50.4	9 - 18	0.50
42	30.9-44.1	8 - 16	0.70
36	26.5-37.8	7 - 14	0.70
28	20.6-29.4	5 - 10	1.00
24	17.6-25.2	4 - 9	1.20
20	14.7-21.0	4 - 7	1.40
18	13.2-18.9	3 - 7	1.50
15	11.0-15.8	3 - 5	1.80
12	8.8-12.6	2 - 4	2.00
12	8.8-12.6	2 - 4	2.01
* LED Vf range: 2.7-3.6 V			

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