



LED Driver

Xitanium

54W 0.1-1.5A 54V 0-10V 1%
347V with SimpleSet
XG054C150V054BST1



E321253
Class P
LED class 2 output
For Dry and Damp Location

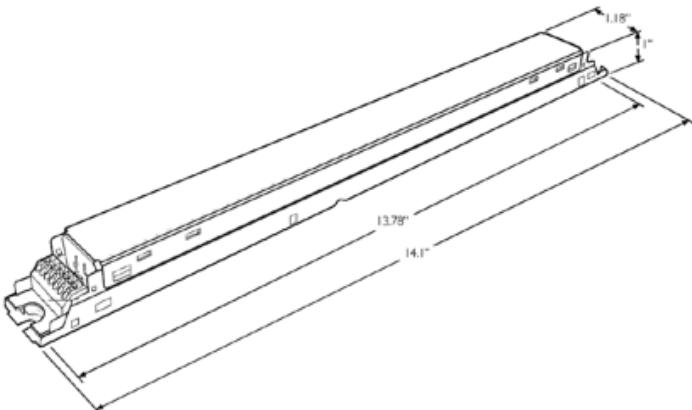
Philips Advance Xitanium linear LED drivers with SimpleSet technology are designed to give OEMs ultimate flexibility. The drivers' wide operating windows, slim profile and simple programming allow luminaire manufacturers to design luminaires of different sizes and lumen levels for office and retail applications.

Specifications

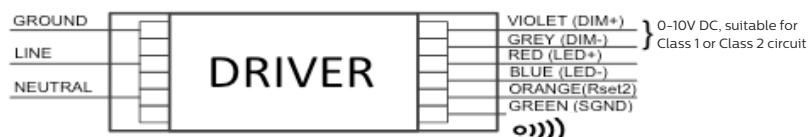
Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ 35.7V and 70°C Case (%)	Max. Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max. Load (%)	Power Factor @ Max. Load	Surge Protection (Combi-Wave, KV)	Envir. Protection Rating
347	54	27 - 54	0.1 - 1.5	88	85°C	0.19	65	<10%	>0.96	2.5	UL damp & dry

Enclosure

	In. (mm)
Case Length	14.17 (360)
Case Width	1.18 (30)
Case Height	1.00 (25)
Mounting Length	13.78 (350)



Wiring Diagram



Warning

Install in accordance with national and local electrical codes. Use 18AWG solid or tinned stranded copper wire.

Grounding

Driver case must be grounded.

Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)	Other Comments
0-10V Analog Class 1 or Class 2 Wiring	1% ~ 100% (for output current range 0.34-1.5A)	0.0034	Dimming source current: 150 µA

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Features

- 50,000+ hour lifetime¹
- SimpleSet programmable
- Large operating window
- 1% minimum dim level

Benefits

- Slim profile housing enables easy design-in with excellent thermal performance
- Enables simple, fast, flexible application-specific configurations
- Enables fixture designs with comprehensive application coverage for various loads and lumen levels

Application

- Indoor linear applications such as troffers and pendants
- Office
- Education
- Healthcare
- Retail

Electrical Specifications

All the specifications are typical and at 25°C Tcase unless specified otherwise.

Product Data

Order Information

Full Product Code	XG054C150V054BST1M (Mid-Pack, 18pcs/Box), 12NC: 929000775213
Line Frequency	50/60Hz
Min. Mains Voltage Operational	312 Vac
Max. Mains Voltage Operational	382 Vac

Output Information

Maximum Open Circuit Voltage	<60V DC, Class 2 output
Output Current Ripple (ripple = peak to average / average)	15% max. @ max Iout 4% max. @ Visible for stroboscopic frequency range 60Hz-3KHz
Output Current Tolerance (in the performance window)	<5%
Protections	Short Circuit, Open Circuit Protection for LED + and LED – and Temperature Foldback

Features

0-10V Dimming	150µA source current from driver. See dim curve for detail.
AOC (adjustable output current)	100mA to 1500mA via external resistor or SimpleSet programming (default set to 1500mA, refer to graph)
Additional SimpleSet Configurable Features	Adjustable minimum dimming level, Dimming curve selection (linear or logarithmic), Adjustable output level, Adjustable output min., OEM write protection

Environment & Approbation

Operating Ambient Temp. Range	-20°C to +50°C
Max. Case Temperature (Tcase)	85°C
Agency Approbations	UL8750, UL1310, CSA-C22.2 No. 250.13-12, CSA Class P, UL Class P
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.69Lbs / 0.32 kgs

1. Philips Advance Xitanium LED drivers are manufactured to engineering standards correlating to a designed and average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTBF modeling.

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0-10V Dimming Curve

Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum dim level: 1% of Iout (minimum 3.4mA)

Maximum output voltage on the dimming wires: 12V

Approved Dimmer List

Manufacturer	Manufacturer Part Number
Lutron	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver
Leviton	IllumaTech IP7 series
Philips	Sunrise - SR1200ZTUNV

