



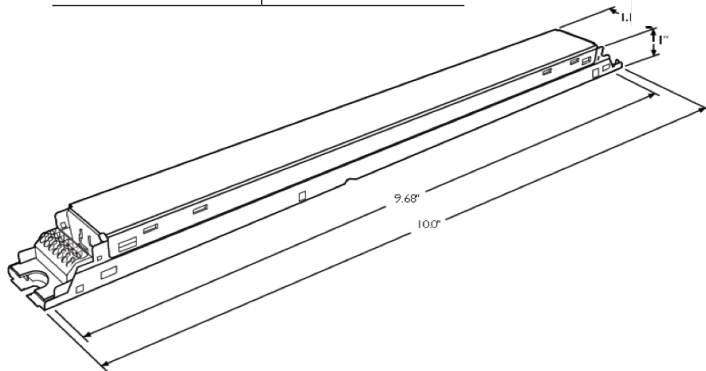
Advance Xtitanium linear LED drivers with SimpleSet technology are designed to give OEMs ultimate flexibility. The drivers' wide operating windows, slim profile and simple programming allow luminaire manufacturers to design luminaires of different sizes and lumen levels for office and retail applications.

Specifications

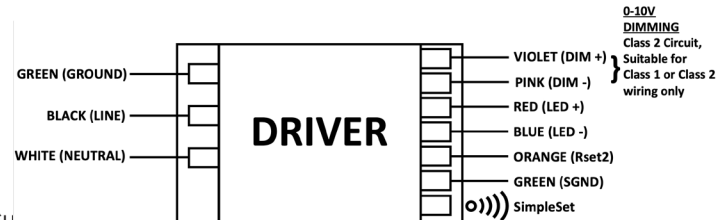
Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ 35.7V and 70°C Case (%)	Max. Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max. Load (%)	Power Factor @ Max. Load	Surge Protection (Ring Wave, KV)	Envir. Protection Rating	Driver Type
347	20	27 - 54 Class 2 Output	0.1-0.56	84	80	0.08	26	<10%	>0.95	2.5	UL damp & dry	Constant Current

Enclosure

	In. (mm)
Case Length	10.0 (254)
Case Width	1.18 (30)
Case Height	1.00 (25)
Mounting Length	9.68 (246)



Wiring Diagram



Warning

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

The field-wiring leads or push-in terminals shall be fully enclosed.

Grounding

Driver case must be grounded.

Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)	Other Comments
0-10V Analog Class 2 Wiring	1% ~ 100% (for output current range 0.1-0.56A)	0.001	Dimming source current: 150 µA



Xitanium XG020C056V054BST1

20W 0.1-0.56A 54V 0-10V 1% 347V with SimpleSet

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	XG020C056V054BST1M (Mid-Pack, 18pcs/Box), 12NC: 929000775013
Line Frequency	50/60Hz
Min. Mains Voltage Operational	312 Vac
Max. Mains Voltage Operational	382 Vac
Output Information	
Maximum Open Circuit Voltage	< 60Vdc
Output Current Ripple (ripple = peak to average / average)	15% max. @ max lout 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 560mA via external resistor or SimpleSet programming (default set to 560mA, 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)	80°C
Agency Approbations	UL8750, UL1310, cUL, Class P (UL, cUL)
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.49Lbs/0.22 kgs

1. 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.

Xitanium XG020C056V054BST1

20W 0.1-0.56A 54V 0-10V 1% 347V with SimpleSet

Electrical Specifications

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

0-10V Dimming Curve

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

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

Maximum output voltage on the dimming wires: 12V

The dimming lead leakage current is 0.01mA. The maximum number of drivers that can be connected in parallel to one dimming control circuit is based on this dimming lead leakage current and the calculation is described in the corresponding Design-in Guide.

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
Advance	Sunrise - SR1200ZTUNV

