

PHILIPS ADVANCE

LED Driver

Xitanium

36W 0.1-1.0A 54V 0-10V INT
(1% dim) with SimpleSet
XI036C100V054DSM1
XI036C100V054DSM5



Conforms to
UL STD 991
for SREC



Class P
Tp(90°C)



Class 2
Power Unit
Dry & Damp
Location

Conforms to UL STD
991 for SREC



Safety Related
Electronic Circuit
E321253



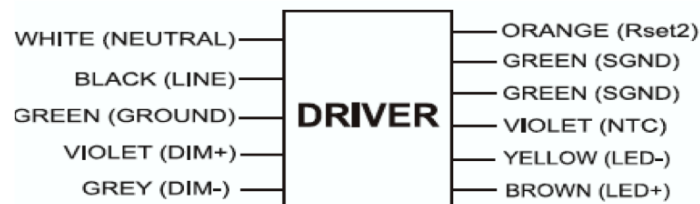
Safety Related
Electronic Circuit
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The Philips Advance Xitanium range of downlight LED drivers is designed to provide OEMs with ultimate flexibility. These models are compatible with standard 0-10V dimming systems to deliver reliably smooth dimming performance down to a minimum of 1%. Enabled with SimpleSet technology, these drivers offer the needed flexibility and performance for the application with precise tuning of drive currents, selectable dimming curves and adjustable minimum dimming levels. The drivers' wide operating windows, compact size and simple current adjustability allow luminaire manufacturers to easily design downlight fixtures with desired lumen levels to suit the application.

Specifications

Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load and 75°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
120	36	27 - 54	0.1 - 1.0	86	Life-80°C	0.35	42	<10%	>0.95	2.5	UL damp & dry and Type HL
277				88	UL-90°C	0.15		<15%			

Wiring Diagram



WARNING:
Install in accordance with National and Local Electrical Codes.
Use 18AWG Solid Copper Wire, Rated $\geq 300V/105^{\circ}C$.
Strip wire to 3/8"

GROUNDING:
Driver case must be grounded.



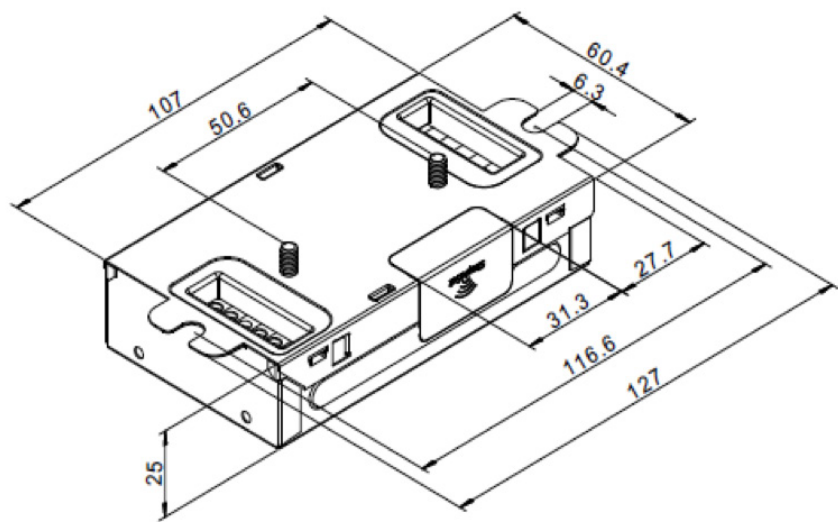
For Fortimo systems connect pink wire to violet (NTC).

Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)	Other Comments
0-10V Analog Class 1 and 2 Wiring	1% ~ 100% (for output current range 0.4-1.0A)	0.004	Dimming source current: 150 μA

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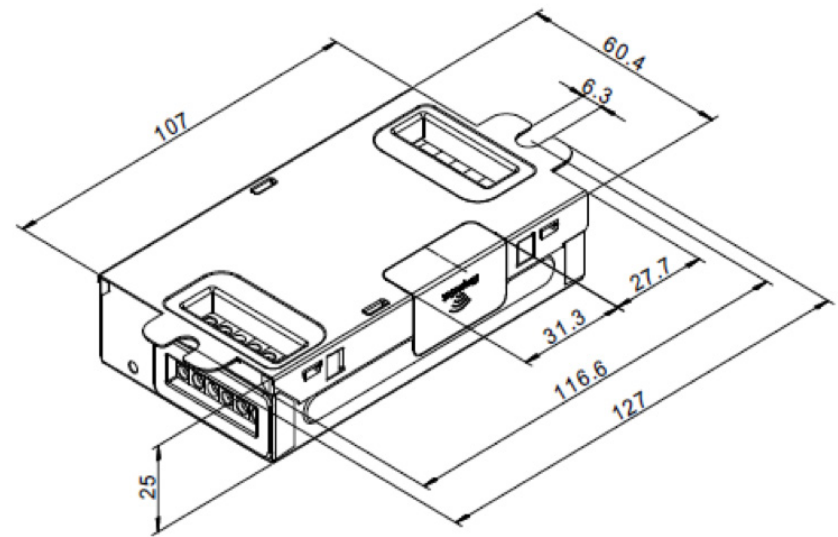
Enclosure

XI036C100V054DSM1 (bottom entry)



	In. (mm)
Case Length	4.21 (107.00)
Case Width	2.38 (60.4)
Case Height	0.98 (25.00)
Mounting Length	4.57 (116.00)
Overall Length	5 (127.00)

XI036C100V054DSM5 (side entry)



	In. (mm)
Case Length	4.21 (107.00)
Case Width	2.38 (60.4)
Case Height	0.98 (25.00)
Mounting Length	4.57 (116.00)
Overall Length	5 (127.00)

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Features

- 50,000+ hour lifetime¹
- SimpleSet programmable
- Large operating window
- 1% minimum dim level
- Compatible with Philips Fortimo downlight modules

Benefits

- SmartMate style 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
- A single source system offer optimized for performance

Application

- Indoor downlight applications
- Wall sconces and ceiling surface luminaires
- Retail
- Hospitality
- Offices (corridors, conference rooms, lobby areas)
- Floodlights

Electrical Specifications

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

Product Data

Order Information	
Full Product Code	XI036C100V054DSM1 [bottom entry] (Mid-Pack, 16pcs/Box), 12NC: 929000748413 XI036C100V054DSM5 [side entry] (Mid-Pack, 16pcs/Box), 12NC: 929000748513
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108 Vac
Max. Mains Voltage Operational	305 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)	0.1A-1.0A via SimpleSet (Factory Default at 1.0A)
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, UL991, CSA250.13-14, C22.2 No. 0.8-12, CSA Class P, ETL Class P, UL 2043 Plenum Rating
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.44 Lbs / 0.2 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.