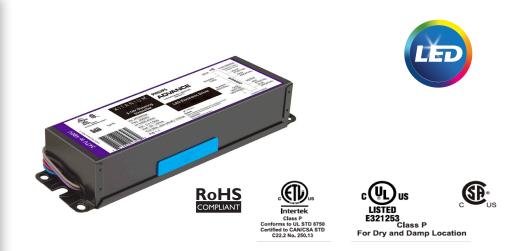
PHILIPS ADVANCE

LED Driver

Xitanium

180W 0.1-1.25A 0-10V Dimming with SimpleSet and Aux. Output XH180C125V200PSF1



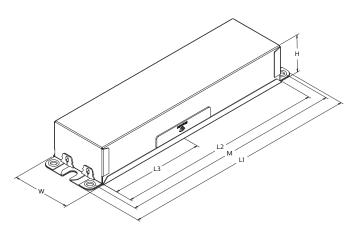
Philips Advance Xitanium LED drivers with SimpleSet technology and auxiliary power supply extend the driver application scope to include simple self-contained control solutions for luminaires. The driver provides an additional auxiliary output for powering simple sensors (occupancy/photocell), and the driver has a built-in standby mode through the 0-10V leads. The additional auxiliary power output eliminates the need for a mains relay or power pack for the sensor and allows the sensor to turn the driver on/off and also operate the dimming function.

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	Dimming	Dimming Range (with specified dimmers)	Min. Output Current (A)
347	180 70-210	0.1 - 1.25	92.4	Life - 85°C	0.56	200	<10%	>0.95	6	UL damp & dry and Type HL	0-10V Analog	10% ~ 100%	0.07	
480		70 210	0.1 1.25	93.3	UL - 90°C 0.4	200					Class 1 and 2 Wiring		0.07	

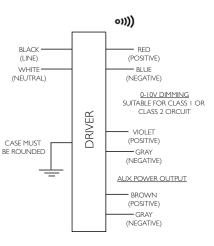
Enclosure

	ln. (mm)	Tolerance
Case Length (L2)	8.31 (211.0)	± 0.5mm
Case Width (W)	2.31 (58.0)	± 0.5mm
Case Height (H)	1.48 (37.6)	± 1.0mm
Mounting Length (M)	8.91 (226.2)	± 0.5mm
Overall Length (L1)	9.45 (240.0)	± 1.0mm
Center of SimpleSet Antenna (L3)	3.75 (95.3)	± 1.0mm



Wiring Diagram

	Wire Length (mm)
Black/Orange (Line)	270 (± 30)
Black/White (Neutral)	270 (± 30)
Red (Positive, LED output)	270 (± 30)
Blue (Negative, LED output)	270 (± 30)
Violet (Positive, 0-10V)	270 (± 30)
Gray (Negative, 0-10V)	270 (± 30)
Brown (Positive, Aux power output)	270 (± 30)
Gray (Negative, Aux power output)	270 (± 30)



Xitanium 180W featuring SimpleSet technology with auxiliary output and dimming with standby

Features

- 50,000+ hour lifetime¹
- Programmable output current through SimpleSet technology
- \cdot Large operating window
- 6kV combi-wave surge rating to comply with ANSI C82.77-5 CAT C low
- Auxiliary power output
- \cdot 0-10V dimming with ON/OFF functionality

Benefits

- \cdot Enables long life luminaire designs
- Fast and simple way of programming
- No external surge protection required to pass C82.77-5 CAT C low
- Aux power output is a great alternative to using 347V or 480V power packs which are expensive.
- The driver can be turned ON/OFF using a passive low-voltage control device or relay

Application

- Area
- Roadway
- Parking garages
- Floodlights
- High-bay and mid-bay

Electrical Specifications

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

Product Data

XH180C125V200PSF1M (Mid-Pack, 10pcs/Box), 12NC: 929001705513
50/60Hz
312 Vac
528 Vac
290Vdc
15% max @ max lout
(Low frequency ripple (≤120Hz) content <5%)
<5%
Short Circuit, Open Circuit Protection for LED + and LED – and
Temperature Foldback

Auxiliary Power Supply Output				
Nominal Aux. Output Voltage	24Vdc (± 10%, including line and load regulation)			
Maximum Aux. Output Voltage Ripple (peak/average)	2%			
Rated Aux. Output Power	3W			
Peak Power (<10s)	4W			
Max. Output Current at Aux output port	125mA. See Aux. Output for details.			
Turn-on Time (from mains applied to output within 90%)	<220 milliseconds			
Max. Voltage Overshoot during Turn ON	30Vdc			
Max. Voltage Undershoot during Turn ON	8Vdc			
Max. Hold-up Time after Mains Power OFF (20mA load)	75 milliseconds (until the aux output voltage drops out of nominal range)			
Protections	Short Circuit & Open Circuit Protection for Aux. + and Aux. – and Over-temperature Foldback			

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 MTTF modeling.

Xitanium 180W featuring SimpleSet technology with auxiliary output and dimming with standby

Electrical Specifications

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

Product Data (continued)

	0-10V Dimming Interface			
Dimming Source Current	100-250µA (for dimming voltage >1V)			
0-10V Active Range	1V to 8V. See dim curve for details.			
0-10V Turn OFF Threshold	<0.5V			
0-10V Turn ON Threshold	>0.8V			
Protections	Short Circuit & Open Circuit Protection for Dim + and Dim – and protected agains accidental mains applied on dimming input			
	Programmable Features			
AOC (adjustable output current)	0.1A-1.25A via SimpleSet (Factory Default at 1.05A)			
Additional Configurable Features	Adjustable Min. Dim Level, Adjustable Lumen Output, Adjustable Lumen Output Min., OEM Write Protection			
Environment & Approbation				
Operating Ambient Temp. Range	-40°C to +55°C			
Max. Case Temperature (Tcase)	90°C			
Agency Approbations	UL 8750, CSA 250.13			
Electromagnetic Compliance	FCC Title 47 Part 15 Class A			
Audible Noise	<24dB Class A			
Weight	2.1 Lbs / 0.95 kgs			