

**ADVANCE**by **LED Driver****Xitanium**

XI055C180V054BSJ1



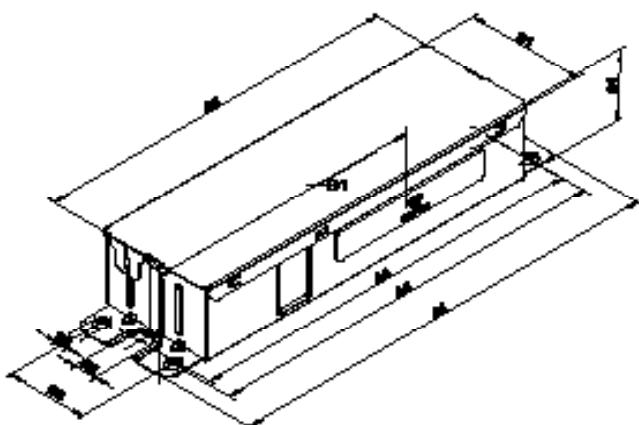
**Advance Xitanium outdoor LED drivers** with SimpleSet technology are designed to give OEMs ultimate flexibility. With wide operating windows and simple programming, the drivers make it easy for luminaire manufacturers to design luminaires of different sizes and lumen levels for outdoor applications.

**Specifications**

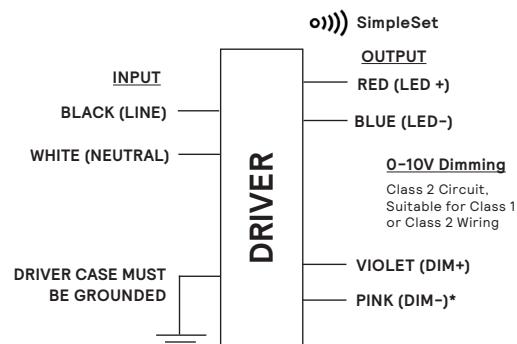
Input Voltage (Vac)	Out-put Power (W)	Out-put Voltage (V)	Output Current (A)	Efficiency @ Max Load and 75°C Case	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection (Combi-Wave, KV)	Envir. Protection Rating	Dim	Dimming Range (with specified dimmers)	Min. Output Current (A)	Driver Type
120	55	18-54 Class 2 Out-put	0.1 - 1.8	87.3	90°C	0.55	66	<10%	>0.95	6	UL damp & dry and Type HL	0-10V Analog Class 1 and 2 Wiring	10% - 100%	0.07	Constant Current
277		89.4		0.24											

**Enclosure**

	In. (mm)	Tolerance (mm)
Overall Length (A1)	6.61 (168.0)	± 0.5mm
Mounting Length (A2)	6.06 (153.8)	± 0.5mm
Case Length (A3)	5.50 (139.8)	± 0.5mm
Case Width (B1)	1.78 (45.1)	± 0.5mm
Mounting Length2 (A4)	5.98 (152)	± 0.5mm
Mounting Width (B2)	1.22 (31)	± 0.5mm
Case Height (C1)	1.11 (28.2)	± 1.0mm
Mounting Hole Diameter (D1)	0.20 (5.0)	± 0.3mm
Mounting Hole Diameter (D2)	0.35 (8.8)	± 0.3mm
Center of SimpleSet Antenna (G1)	3.99 (101.5)	± 3.0mm

**Wiring Diagram**

	Wire Length (mm)
Black (Line)	270 (± 30)
White (Neutral)	270 (± 30)
Red (Positive, LED output)	270 (± 30)
Blue (Negative, LED output)	270 (± 30)
Violet (Positive, 0-10V)	270 (± 30)
Pink* (Negative, 0-10V)	270 (± 30)



\*DIM- will change from GREY to PINK from 2021 onwards.

**Warning**

- Install in accordance with national and local electrical codes.
- The field-wiring leads or push-in terminals shall be enclosed.



# Xitanium XI055C180V054BSJ1

## 55W 0.1-1.8A 0-10V Dimming with SimpleSet

### Features

- 50,000+ hour lifetime<sup>1</sup>
- Programmable output current through SimpleSet
- Class 2 voltage-current window coverage
- 6kV combi-wave surge rating to comply with ANSI C82.77-5 CAT C low

### Benefits

- Enables long life luminaire designs
- Fast and simple way of programming
- Enables fixture designs with a wide variety of loads and adjustable current options
- No external surge protection required to pass C82.77-5 CAT C low

### Application

- Area
- Roadway
- Parking garages (interior and exterior)
- Floodlights
- Low-bay and mid-bay

### Electrical Specifications

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

### Product Data

#### Order Information

Full Product Code	XI055C180V054BSJ1M (Mid-Pack, 12pcs/box)
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108 Vac
Max. Mains Voltage Operational	305 Vac
DC Input Voltage	125/250Vdc An additional EMC filter may be necessary for the product to comply with FCC Part 15 class A limit at DC Mains operation.

#### Output Information

Maximum Open Circuit Voltage	<60Vdc (UL Class 2 Output)
Output Current Ripple (ripple = peak to average / average)	15% max. @ max. Iout (Low frequency ripple (≤120Hz) content <5%)
Output Current Tolerance (in performance window)	<5%
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and Temperature Foldback

#### Features

0-10V Dimming	150µA (±3%) source current from driver. See dim curve for detail.
AOC (Adjustable Output Current)	0.1A-1.8A via SimpleSet (Factory Default at 1.05A)
Additional SimpleSet 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)	85°C for Life & 90°C for UL
Agency Approbations	UL 8750, UL Listed, NOM, cUL, Class P (UL, cUL)
Electromagnetic Compliance	FCC Title 47 Part 15 Class A for 120-277 AC Mains input.
Audible Noise	<24dB Class A
Weight	0.795 Lbs / 0.361 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 MTTF modeling.

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### Electrical Specifications

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### 0-10V Dimming Curve

- Dimming source current from the driver: 150µA (@ 0<Vdim<8V)
- Minimum dim level: 10% of Iout setting as default
- Maximum output voltage on the dimming wires: 12V
- Leakage current of dimming leads: 0.010mA, recommended max number of control circuits in parallel refer to Design-in Guide

### Approved Dimmer List

Manufacturer	Manufacturer Part Number
Lutron	Visit <a href="http://www.lutron.com/">www.lutron.com/</a> advance for a list of dimmers (Mark VII) that will work with this driver
Leviton	IllumaTech IP7 series
Advance	Sunrise - SR1200ZTUNV

