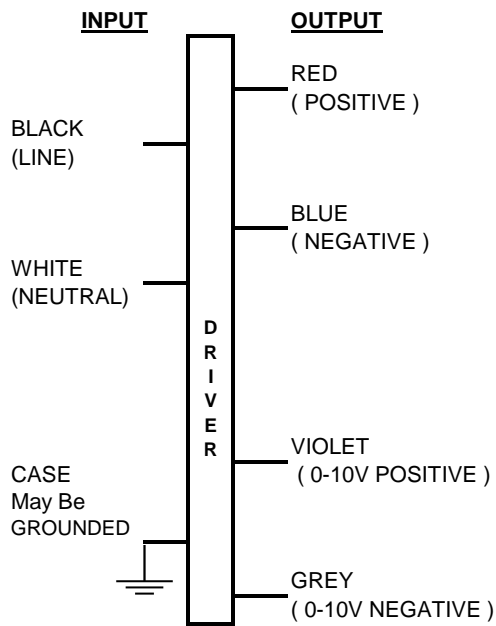


Ordering 12NC	9290 014 20306
Brand Name	Xitanium
Description	Xitanium 75W 0.7A 0-10V INT-Y
Model Number	X075C070V107CNY1AO
Input Voltage	120 - 270V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 ( Part 2 / Sec 13 )
Status	BIS Certified

Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency at Max Load			Max Case Temp (°C)	Input Current (Arms)			Max Input Power (W)	Inrush Current (Apk/50%-µs)			THD @ Max Load (%)	Power Factor @Max Load	Surge Protection Com/Diff(KV)	Weight (Kg)	Envir. Protection Rating
			120V	240V	277V		120V	240V	277V		120V	240V	277V					
75	43-118*	0.7	120V	240V	277V	80	120V	240V	277V	84	120V	240V	277V	<10 @Max Load	> 0.95	4 / 4	0.7	Dry & Damp
			90.5	92.6	92.7		0.69	0.35	0.29		41/100	80/100	90/100					

Dimming : 0 -10V

## Wire Diagram



Input and output use lead-wires.  
Lead-Wires are 18AWG 105C / 600V  
Solid Copper

Lead Length  
Standard lead length is 270mm (±30mm)  
on all wires outside the can

## Enclosure



	(mm)
Case Length	138
Case Width	59.1
Case Height	38
Mounting Length	153
Mounting Width	42.9
Overall Length	168

\* Refer Operating Window in Page no.- 3 of 6

Ordering 12NC	9290 014 20306
Brand Name	Xitanium
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**PHILIPS**  
LED Electronic Driver  
Model No: X075C070V107CNY1A0

Dry & Damp location

**RoHS**  
COMPLIANT

**XITANIUM™**  
75W 0.7A  
0-10V DIMMING

U <sub>in</sub>	240Vac
Freq	50Hz
I <sub>in</sub>	0.35Aac
PF	0.95
U <sub>out</sub>	43 - 107Vdc
I <sub>out</sub>	0.7Adc
T <sub>a</sub>	-20...+55°C

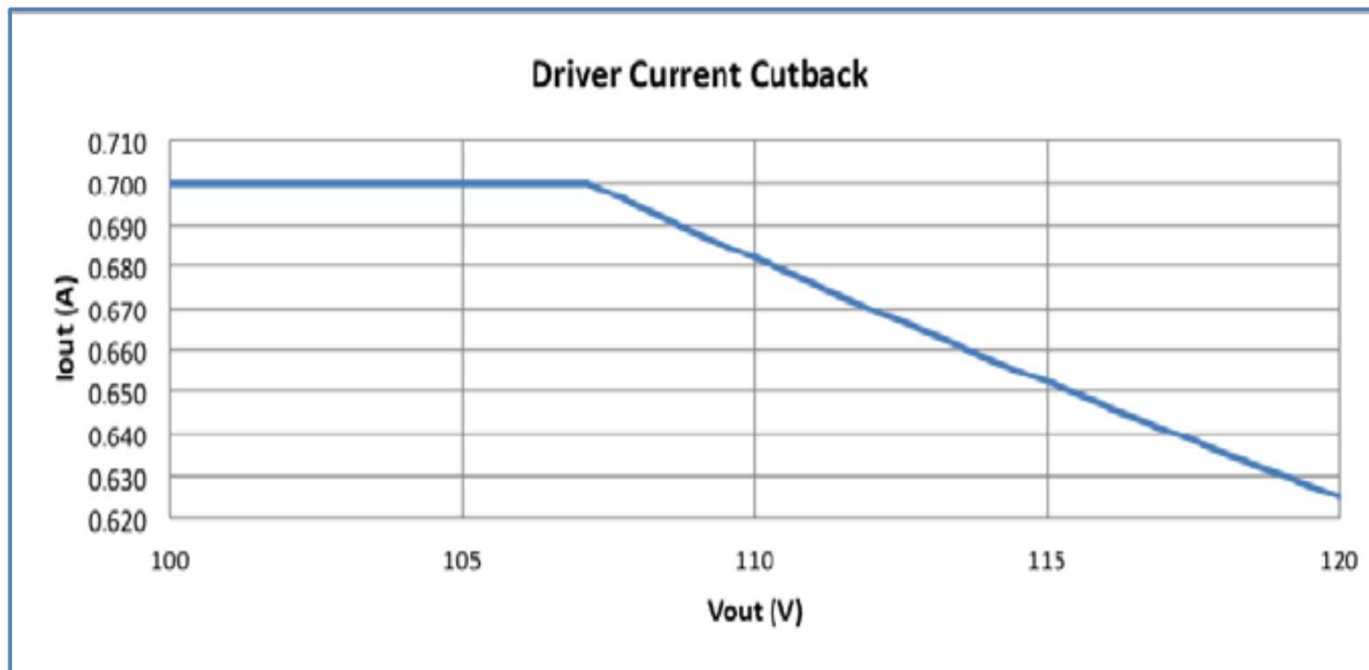
U<sub>out</sub> (max. open circuit)= 180Vdc  
Input OverVoltage Protection  
Operating range: 120-277V

Product Data	
Full product code	9290 014 20306
Full product name	Xitanium 75W 0.7A 0-10V INT-Y
Net weight per piece	700 gms
Dimming	Yes ( 0-10V )
Ambient Temp. Range	-20C to +55C
Corresponding T case	+5C to +80C
Line Voltage ( AC operation )	120 - 277V +/-10%
Line Current	0.69A @ 120V, 0.35A @ 240V, 0.29A @ 277V
Line Frequency	50/60 Hz
Envir. Protection Rating	Dry and Damp , Potted LED Driver
Life at Tc 80 drgree C	50000 hrs ( nom. )
Suitable For Outdoor Use	Yes
Max. Tc	80°C
Inrush Current	41Apk @ 120V, 80Apk @ 240V, 90Apk @ 277V
Max. Driver number on MCB 16A ( Type B )	16 ( max. )
Input Over Voltage	Can Survive input Voltage Stress of 320V for 48 hours
Input Over Voltage Cut Off	Auto Shutdown at 325 ± 15V and Auto Recovery
Input Over Voltage Protection	Can Survive input Voltage Stress of 440V for 8 hours
Input Under Voltage Protection	Can Survive input Voltage Stress of 100V for 48 hours
Interfaces	0 - 10V Dimming
0-10V Dimming Specification	150µA ± 3% Source Current from driver
LED Current Tolerance	+/- 5%of I <sub>max</sub>
Earth Leakage Current	0.7 mA ( max)
Output Current Ripple	10% at 700mA ( ripple = pk / avg. ) for frequency 50 - 1K Hz
Generated disturbances and EMI	EN 55015/CISPR15
	Conducted EMI, 9kHz-30MHz
THD Total	≤ 10% @ Full Load @ 240V Supply
P.F. at Max. Load	≥ 0.95
Wire Isolation	All Wires are double isolated to Ground
Protection	Short Circuit and Open Circuit Protection for LED + and LED -
Standby Power	≤0.4W

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Model Number	X075C070V107CNY1AO
Input Voltage	120 - 270V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 ( Part 2 / Sec 13 )
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## Driver Current Cutback

The Driver Current Cutback feature provides for an increased output voltage with a reduced output current during abnormal LED operation, such as cold weather starting.



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Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 ( Part 2 / Sec 13 )
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## Installation & Application Notes :

### Section I - Physical Characteristics

- 1.1 LED Driver shall be installed inside an electrical enclosure
- 1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher

### Section II - Performance

- 2.1 LED Driver has a rated lifetime of 50,000 hours @  $T_c \leq 80^\circ\text{C}$
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage
- 2.3 LED Driver maximum allowable case temperature is  $80^\circ\text{C}$  - see product label for measurement location
- 2.4 LED Driver has Thermal Fold Back or shutdown above  $T_{cmax}$ , please refer to the table for typical performance
- 2.5 LED Driver reduces output power to LEDs if its case temperature  $> 85^\circ\text{C}$
- 2.6 LED Driver complies with the requirements of IS 15885 ( Part 2 / Sec 13 )

### ELECTRICAL RATINGS :

Model	Input, 50/60 Hz		Output ( nominal )		
	V	A	V DC	mA DC Max	Watts
Xitanium 75W 0.7A 0-10V INT-Y	120/240/277	0.69/0.35/0.29	107	700	75

### TECHNICAL CONSIDERATIONS ( NOT FOR FIELD REPRESENTATIVES USE ) :

#### Section III - Conditions of acceptability

When installed in the end-use equipment, the following are among the considerations to be made :

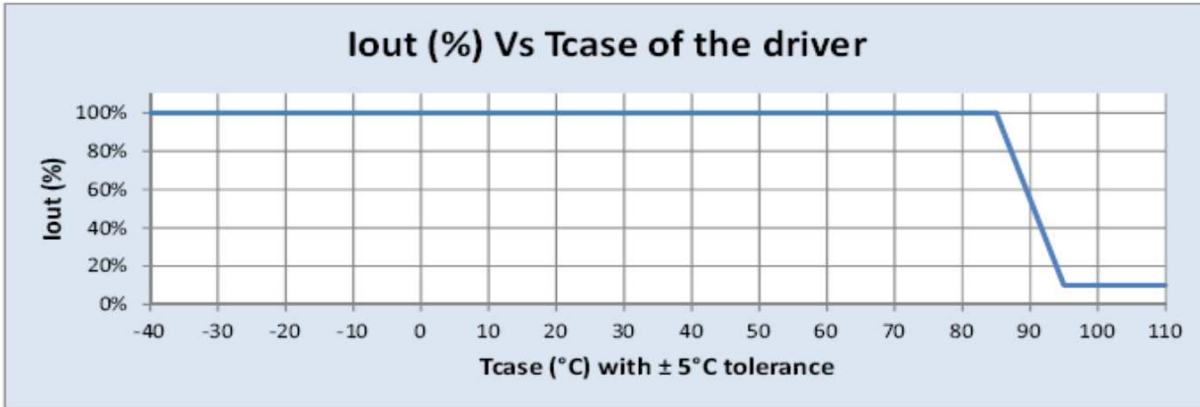
- 3.1 The equipment shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the ultimate application.
- 3.2 The driver case must be grounded in the end-use application.
- 3.3 The driver is suitable for use in "Damp" and "Dry" locations.
- 3.4 When the drivers are installed in the end-use application, the case temperature should not exceed the temperature limits specified in the following table:

Model	Input Voltage, Hz	Max Case @ TC , °C
Xitanium 75W 0.7A 0-10V INT-Y	120/240/277 , 50/60	80

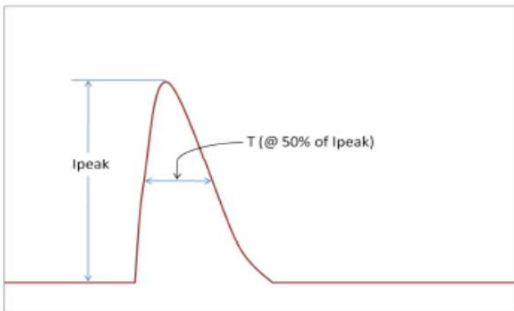
- 3.5 The leakage current test should be repeated in the end device.

Model	Input Voltage, Hz	Leakage Current
Xitanium 75W 0.7A 0-10V INT-Y	120/240/277 , 50/60	0.7mA max.

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Input Voltage	120 - 270V
Input Frequency	50 / 60 Hz
RoHS	Yes
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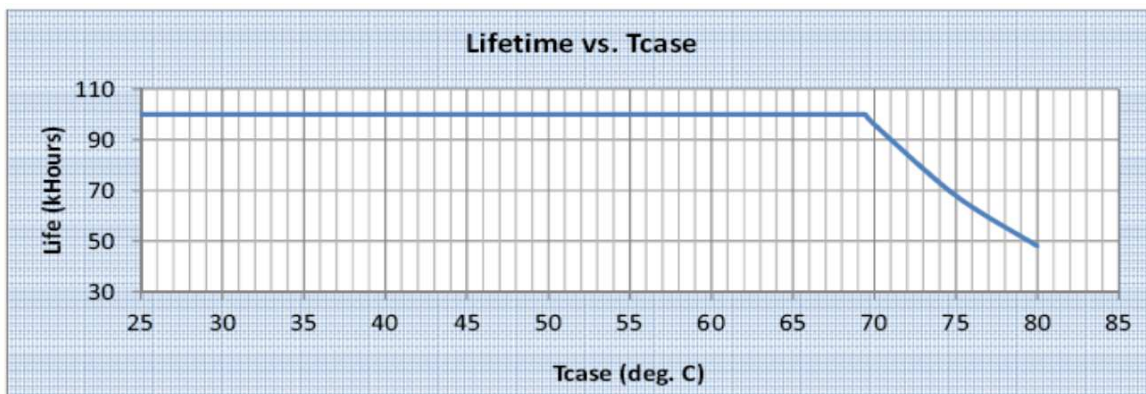


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
120 Vrms	41A	100 μs
240 Vrms	80A	100 μs
277 Vrms	90A	100 μs

Lifetime vs Tcase of Driver :



Failure rate info based upon field called rate data:  
 < 0.2% per 1 Khr @ ≤ T case 80°C

Revised 7/7/2017

Philips Lighting India Ltd  
 9B, DLF 9th Floor  
 DLF Cyber City, DLF Phase III  
 Gurgaon 122002  
 India

Ordering 12NC	9290 014 20306
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Model Number	X075C070V107CNY1AO
Input Voltage	120 - 270V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 ( Part 2 / Sec 13 )
Status	BIS Certified

## Electrical Specifications

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

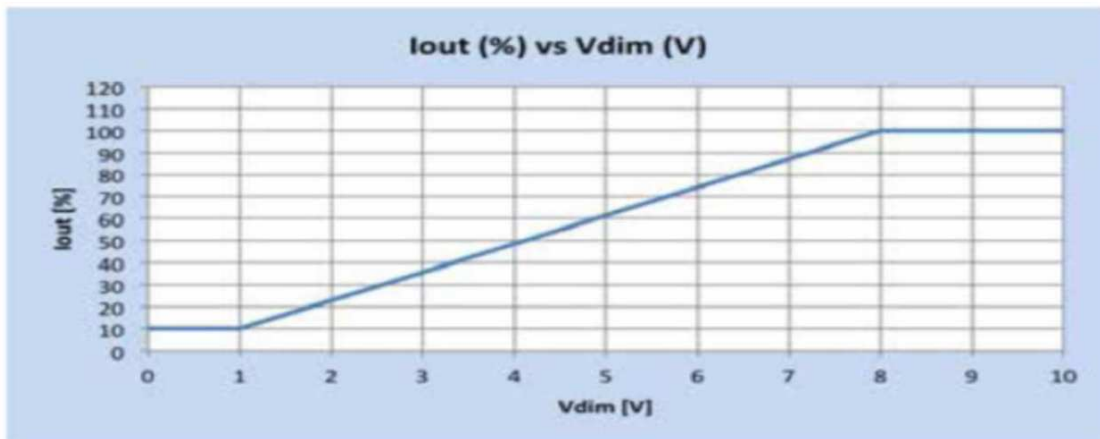
### 0-10V Dimming Curve:

Dimming source current from the driver: 150µA (±3%) (@ 0<Vdim<8V)

LED Current Tolerance at 700mA ≤ 5% over temperature and component variations.

Minimum Dim Level (nominal): 70 mA

Maximum output voltage on the dimming wires: 12V



Isolation :

Isolation	Input Wires	Output Wires	Chassis
Input Wires	NA	1750 V	3750 V
Output Wires	1750 V	NA	3750 V
Chassis	3750 V	3750 V	NA