

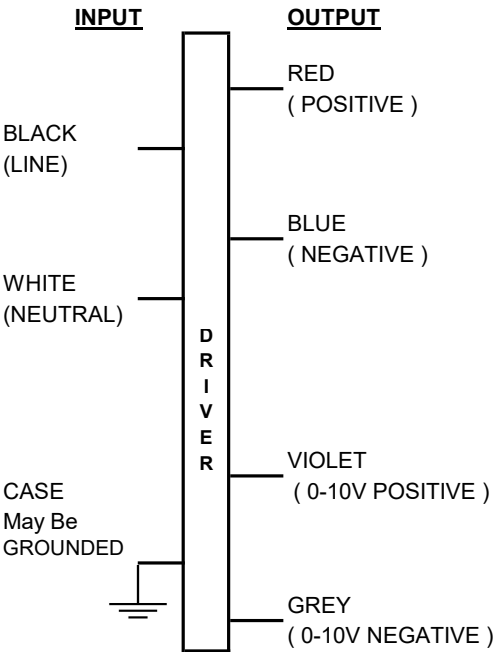


Ordering 12NC	9290 014 77406
Brand Name	Xitanium
Description	Xitanium 75W 0.7A 1-10V Dim 240V
Model Number	X075C070V107CNY1AO
Input Voltage	240V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

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
75	43-107	0.7	240V	80	240V	84	240V	<10 @Max Load	> 0.95	4 / 4	0.7	Dry & Damp
			90%		0.35		80/100					

Dimming : 0 -10V

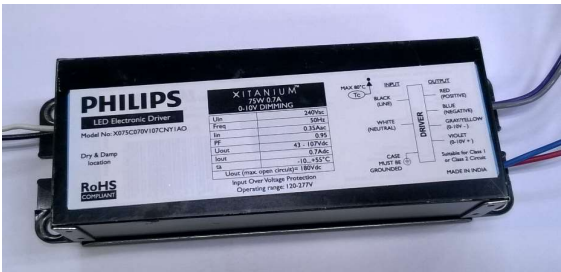
Wire Diagram



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

PHILIPS

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LED Electronic Driver

Model No: X075C070V107CNY1AO

Dry & Damp location

IS 15885
(Part 2/Sec 13)

RoHS COMPLIANT

R-85000434
www.bis.gov.in

XITANIUM™
75W 0.7A
0-10V DIMMING

U _{in}	240Vac
Freq	50Hz
I _{in}	0.35Aac
PF	0.95
U _{out}	43 - 107Vdc
I _{out}	0.7Adc
ta	-20...+55°C

U_{out} (max. open circuit) = 180Vdc

Input Over Voltage Protection
Operating range: 120-277V

MAX 80°C
Tc

INPUT
BLACK (LINE)
WHITE (NEUTRAL)
CASE MUST BE GROUNDED

OUTPUT
RED (POSITIVE)
BLUE (NEGATIVE)
GRAY (0-10V -)
VIOLET (0-10V +)

Suitable for Class I or Class 2 Circuit

MADE IN INDIA

Product Data	
Full product code	9290 014 77406
Full product name	Xitanium 75W 0.7A 0-10V 240V 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 Voltage (Performance)	240V +/-15% , CLO 120 - 277V
Line Current	0.35A @ 240V
Line Frequency	50/60 Hz
Envir. Protection Rating	Dry and Damp , Potted LED Driver
Life at Tc 80 degree C	50000 hrs (nom.)
Suitable For Outdoor Use	Yes
Max. Tc	80°C
Inrush Current	80Apk @ 240V
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 ≥325V and Auto Recovery at 300V - 315V
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 _{max}
Earth Leakage Current	0.7 mA (max)
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	≤5W



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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°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 1-10V Dim 240V	240	0.35	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:

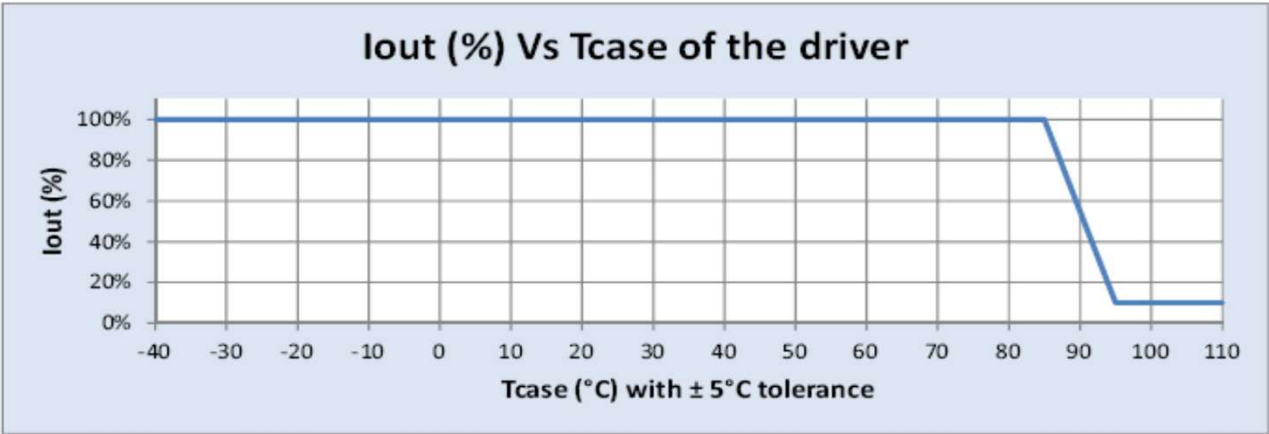
Model	Input Voltage V, Hz	Max Case @ T_C , $^\circ\text{C}$
Xitanium 75W 0.7A 1-10V Dim 240V	240, 50/60	80

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

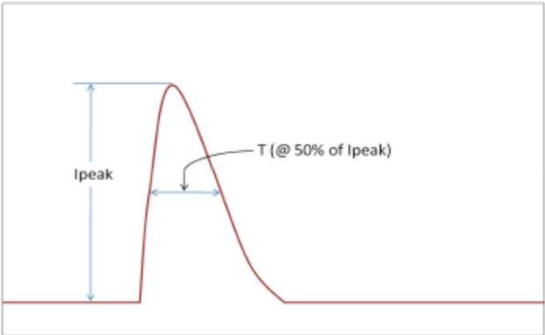
Model	Input Voltage V, Hz	Leakage Current
Xitanium 75W 0.7A 1-10V Dim 240V	240 , 50/60	0.7mA max.



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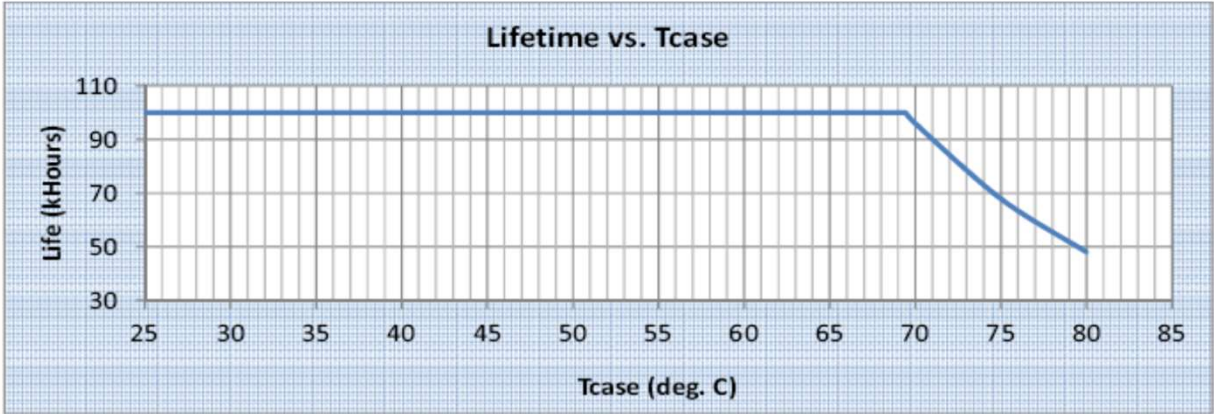


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
240 Vrms	80A	100 μ s

Lifetime vs Tcase of Driver :



Failure rate info based upon field called rate data:
< 0.2% per 1 K Hr @ $\leq T_{case}$ 80°C



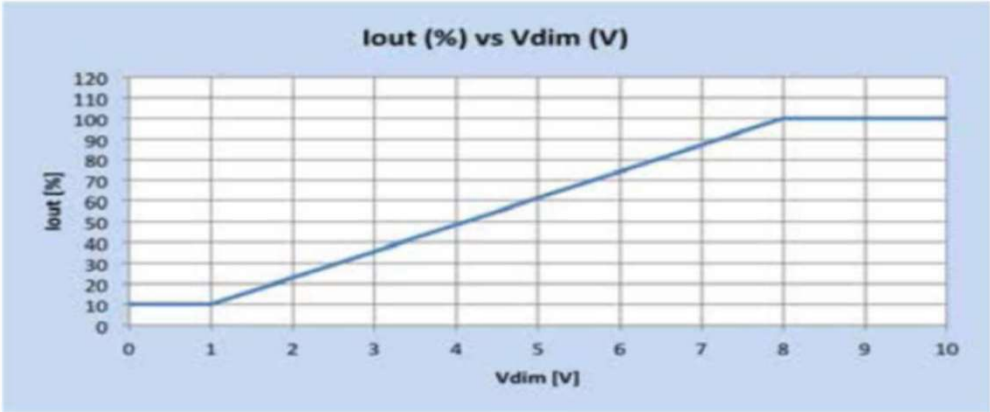
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Electrical Specifications

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



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