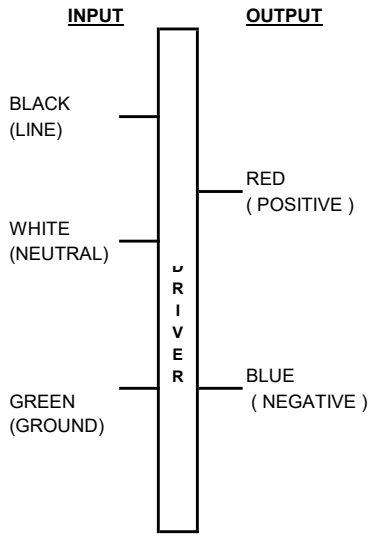
PHILIPS

Ordering 12NC	929003411806
Brand Name	Xitanium
Description	Xitanium 50W 0.7A
Model Number	X045C070V066FNP1AO
Input Voltage	240V
Input Frequency	50 Hz
RoHS	Yes
Approbations	BIS
Status	To be Validated

Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency at Max Load	Max Case Temp (ºC)	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
45	50 -66	0.7	240V 90%	80	240V 0.22	50	240V 5.1/55	<10 @Max Load	> 0.95	5 / 5	0.26	Dry & Damp

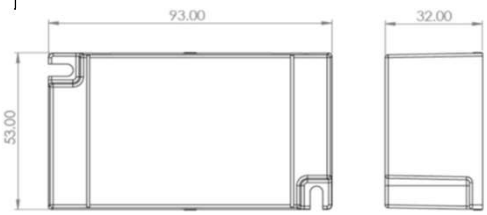
Wire Diagram



Input and output use lead-wires.
Lead-Wires 105C / 600V
16X0.2mm multi-strand, tiwisted & Tinned

Lead Length
Standard lead length is 150mm (±30mm)
on all wires outside the can

Enclosure



Case Dimensions in (mm)	
Case Length	93
Case Width	53
Case Height	32
Mounting Length	
Mounting Width	

tol: ± 0.5mm
Unit: mm

Case Material	PCFR Black
Mains Input / Output	Wire Connections

Revised 7/17/2021

Signify innovations India Ltd
9B, DLF 9th Floor
DLF Cyber City, DLF Phase III
Gurgaon 122002
India

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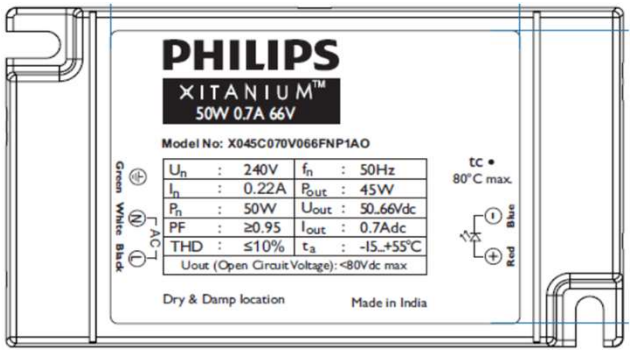

Product Data	
Full product code	929003411806
Full product name	Xitanium 50W 0.7A
Net weight per piece	260 gms
Dimming	None
Ambient Temp. Range	-15C to +55C
Line Voltage (AC operation)	100V - 320V
Line Voltage (Performance)	240V +/-15%, CLO @ 140V-277V
Line Current	0.22A @ 240V
Line Frequency	50 Hz
Envir. Protection Rating	Dry and Damp , Potted LED Driver
Life at Tc 80 drgree C	50000 hrs (nom.)
Suitable For Outdoor Use	Yes
Max. Tc	80ºC
Inrush Current	5.1 Apk @ 240V
Max. Driver number on MCB 16A (Type B)	TBD
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
LED Current Tolerance	+/- 5% of Imax
Earth Leakage Current	0.7 mA (max)
Output Current Ripple	30% 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
Isolation (Input - Output)	Basic Isolation
Protection	Short Circuit and Open Circuit Protection for LED + and LED -

* Tested with Osram DURIS S 5 LEDs

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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/105ºC rating or higher

Section II - Performance

2.1 LED Driver has a rated lifetime of 50,000 hours @ Tc ≤ 80ºC

2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage

2.3 LED Driver maximum allowable case temperature is 80ºC - see product label for measurement location

2.4 LED Driver has Thermal Fold Back or shutdown above Tcmax, please refer to the table for typical performance

2.5 LED Driver reduces output power to LEDs if its case temperature > 85ºC

2.6 LED Driver complies with the requirements of IS 15885 (Part 2 / Sec 13)

ELECTRICAL RATINGS :

	Input, 50/60 Hz		Output (nominal)		
Model	V	A	V DC	mA DC Max	Watts
Xitanium 50W 0.7A	240	0.22	66	700	45

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 , ºC
Xitanium 50W 0.7A	240 , 50/60	80

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

Model	Input Voltage, Hz	Leakage Current
Xitanium 50W 0.7A	240 , 50/60	0.7mA max.

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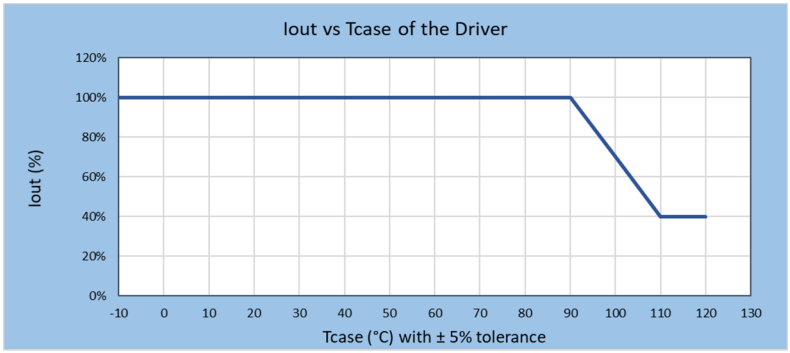
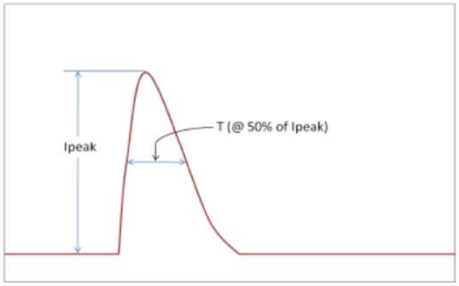
Iout vs Tcase of the Driver

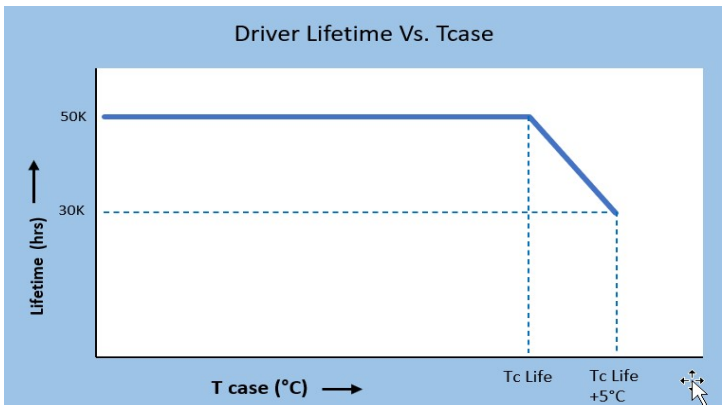


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
240 Vrms	5.1A	55 µs

Lifetime vs Tcase of Driver :



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Isolation :

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

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