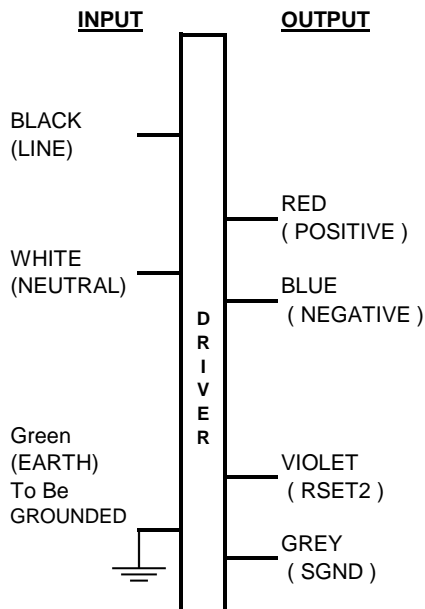


Ordering 12NC	9290 009 53206
Brand Name	Xitanium
Description	Xitanium 50W 0.7-1.5A 44V
Input Voltage	220 - 240V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

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 (KV)	Weight (Kg)	Envir. Protection Rating
14 -50	18 - 44*	0.7 -1.5	240V	75	240V	57	240V	≤ 10 @Max Load	≥ 0.90	1.5	0.4	Dry & Damp
			86		0.28		23/280					

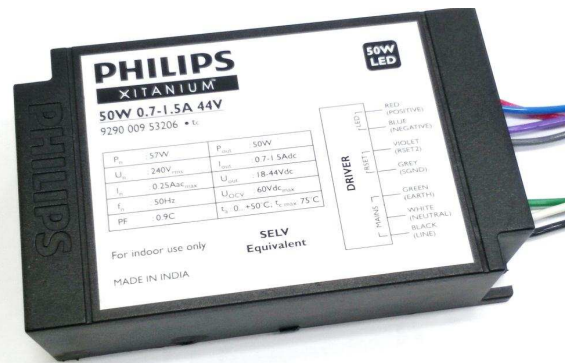
Wire Diagram



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

Lead Length
Standard lead length is 315mm (±10mm)
on all wires outside the can
EARTH lead length is 356mm (±10mm)
outside the can

Enclosure



	(mm)
Case Length	104.4
Case Width	68.4
Case Height	32
Mounting Length	94.5
Mounting Width	58

* Refer Operating Window in Page no.- 3 of 5

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PHILIPS

XITANIUM™

50W 0.7-1.5A 44V

9290 009 53206 • tc

50W LED

P_n : 57W	P_{out} : 50W
U_n : 240V _{rms}	I_{out} : 0.7-1.5Adc
I_n : 0.25Aac _{max}	U_{out} : 18-44Vdc
f_n : 50Hz	U_{ocv} : 60Vdc _{max}
PF : 0.9C	t_a : 0...+50°C; t_c max: 75°C

For indoor use only **SELV Equivalent**

MADE IN INDIA

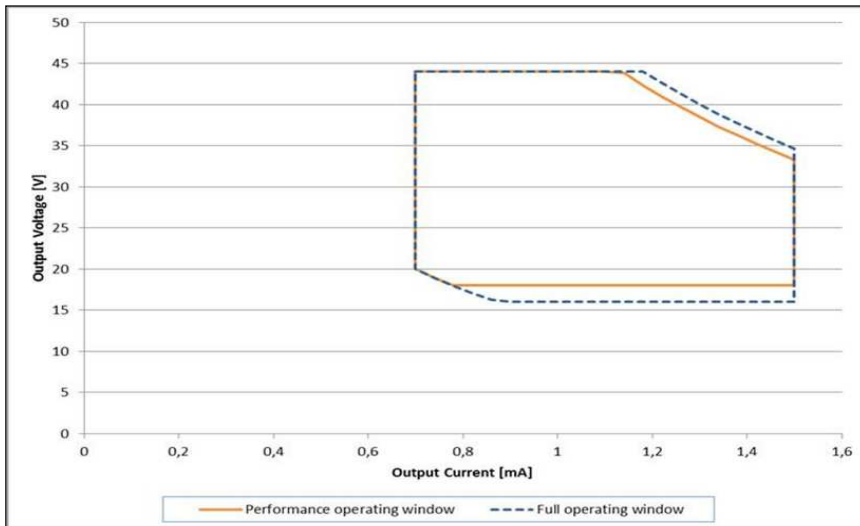
DRIVER

LED	RED (POSITIVE)
	BLUE (NEGATIVE)
RSET	VIOLET (RSET2)
	GREY (SGND)
MAINS	GREEN (EARTH)
	WHITE (NEUTRAL)
	BLACK (LINE)

Product Data	
Full product code	9290 009 53206
Full product name	Xitanium 50W 0.7-1.5A 44V
Net weight per piece	400 gms
Dimming	None (FIXED)
Ambient Temp. Range	0C to +50C
Line Voltage (AC Nominal)	220 - 240V +/-10%
Line Voltage (AC Performance Range)	202 - 254V
Line Current	0.28A @ 240V
Line Frequency	50/60 Hz
Envir. Protection Rating	Dry and Damp
Life at Tc 65 drgree C	50000 hrs (nom.)
Suitable For Indoor Use	Yes (IP 20)
Tc - Max.	75°C
Tc - Life	65°C
Inrush Current	23Apk @ 240V
Max. Driver number on MCB 16A (Type B)	19 (max.)
Input Over Voltage	Can Survive input Voltage Stress of 320V for 48 hours Can Survive input Voltage Stress of 350V for 2 hours
LED Current Tolerance	+/- 8%of Imax
Earth Leakage Current	0.7 mA Pk (max)
Output Current Ripple	60% (ripple = pk - pk / avg.)
THD Total	≤ 10% @ Full Load @ 240V Supply
P.F. at Max. Load	≥ 0.9
Galvanic Isolation	SELV
Protection	Short Circuit and Open Circuit Protection for LED + and LED -
Standby Power	≤4W

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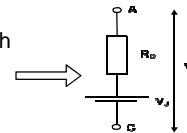
Operating Window



Reference Load: LED load specifications

The general simplified equivalent circuit consists of a dynamic resistance in series with a voltage source and is depicted in the figure below:

- V_f = Total LED forward voltage
- R_d = dynamic resistance of the LED
- V_J = LED junction voltage
- A = Anode
- C = Cathode



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Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

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 @ $T_c \leq 65^\circ\text{C}$
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage
- 2.3 LED Driver maximum allowable case temperature is 75°C - see product label for measurement location
- 2.4 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	A DC	Watts
Xitanium 50W 0.7-1.5A 44V	220 - 240	0.28	18 - 44	0.7 - 1.5	50

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:

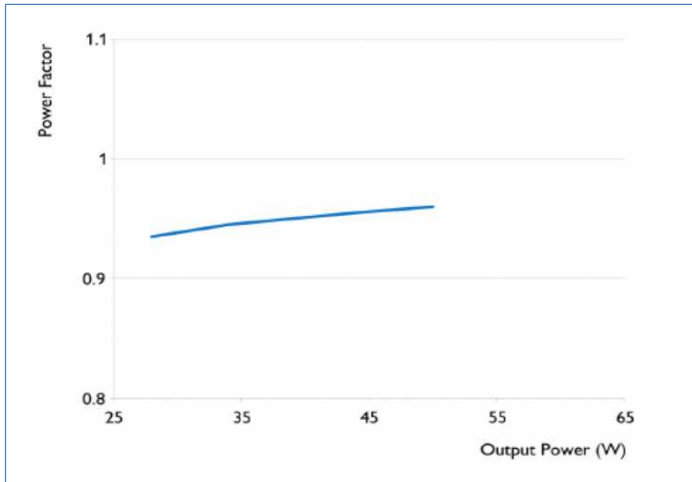
Model	Input Voltage, Hz	Max Case @ TC , °C
Xitanium 50W 0.7-1.5A 44V	220 - 240 , 50/60	75

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

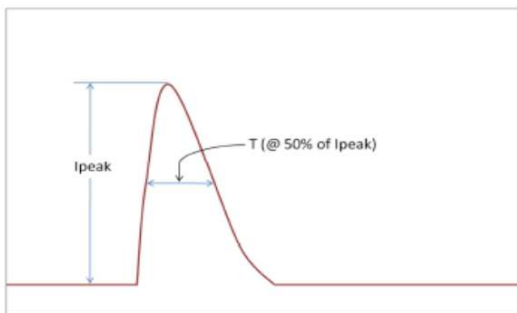
Model	Input Voltage, Hz	Leakage Current
Xitanium 50W 0.7-1.5A 44V	220 - 240 , 50/60	0.7mA max.

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Input Voltage	220 - 240V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

Power Factor vs Output Power :

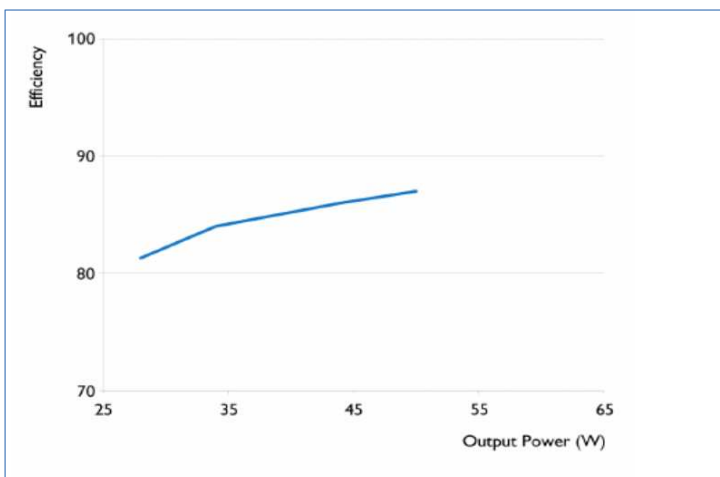


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
240 Vrms	23A	280 μs

Efficiency vs Output Power :



Failure rate info based upon field called rate data:
 < 0.2% per 1 Khr @ ≤ T case-Life 65°C

Revised 13/07/2015

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 India