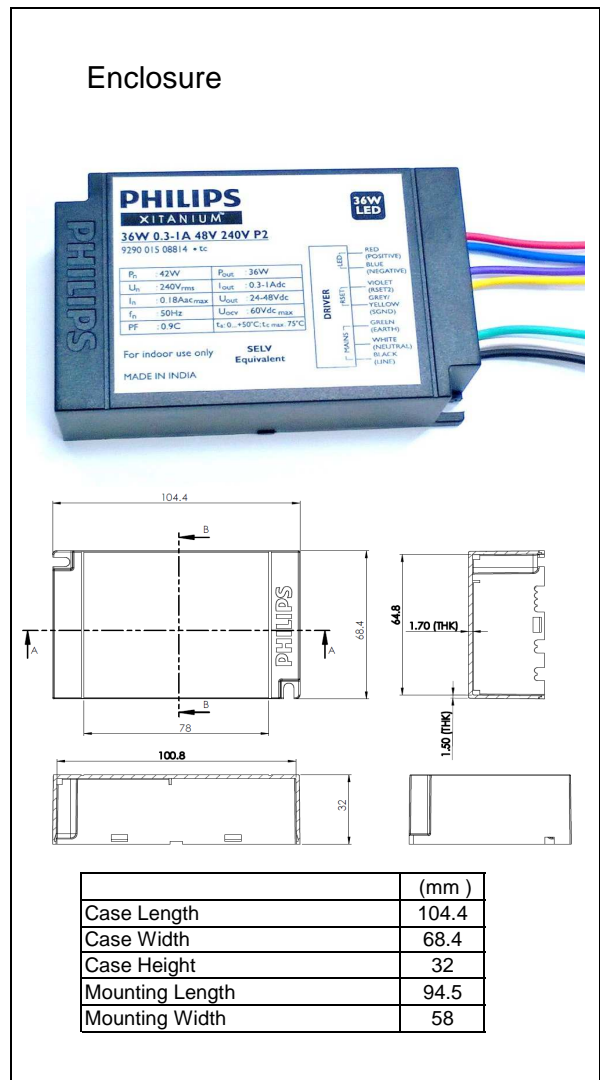
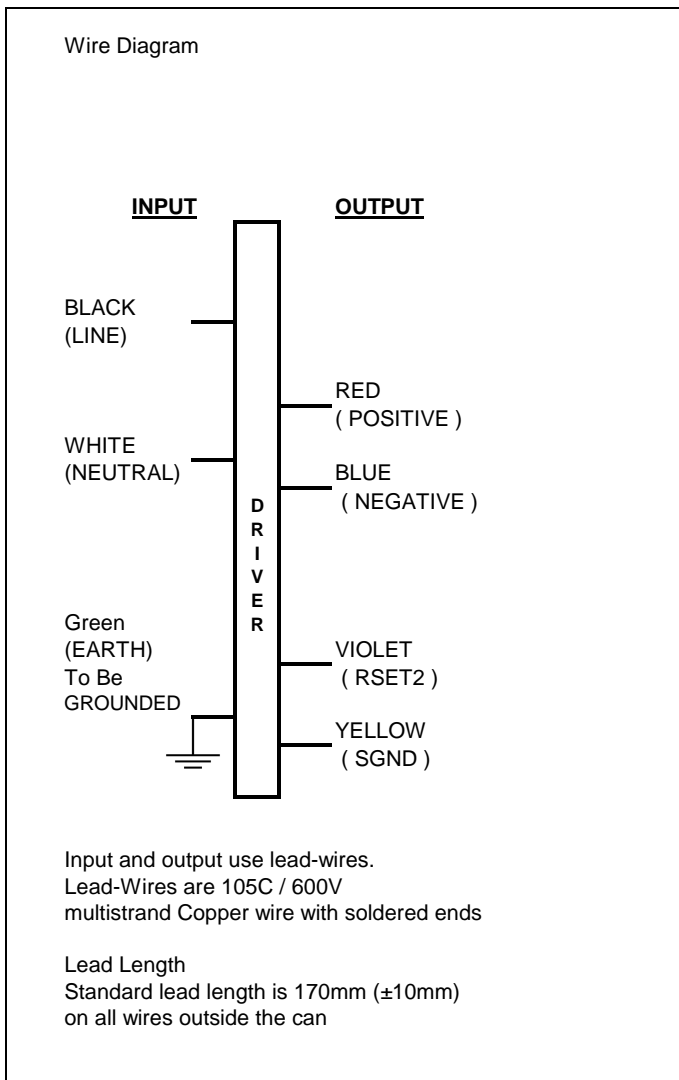


	9290 015 08814
Brand Name	Xitanium
Description	Xitanium 36W 0.3-1A 48V 240V P2
Input Voltage	220 - 240V
Input Frequency	50 Hz
RoHS	Yes
Approbations	IS 15885 ( Part 2 / Sec 13 )
Status	BIS Certified

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 -36	24 - 48*	0.3 -1.0	240V	75	240V	42	240V	≤ 10 @Max Load	≥ 0.90	1.5	0.160	IP 20
			86		0.18		23/278					



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

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## PHILIPS

### XITANIUM™

**36W 0.3-1A 48V 240V P2**

9290 015 08814 • tc

**36W  
LED**

P <sub>n</sub> : 42W	P <sub>out</sub> : 36W
U <sub>n</sub> : 240V <sub>rms</sub>	I <sub>out</sub> : 0.3-1A <sub>dc</sub>
I <sub>n</sub> : 0.18A <sub>acmax</sub>	U <sub>out</sub> : 24-48V <sub>dc</sub>
f <sub>n</sub> : 50Hz	U <sub>ocv</sub> : 60V <sub>dc max</sub>
PF : 0.9C	t <sub>a</sub> : 0...+50°C; t <sub>c</sub> max: 75°C

For indoor use only      **SELV Equivalent**

MADE IN INDIA

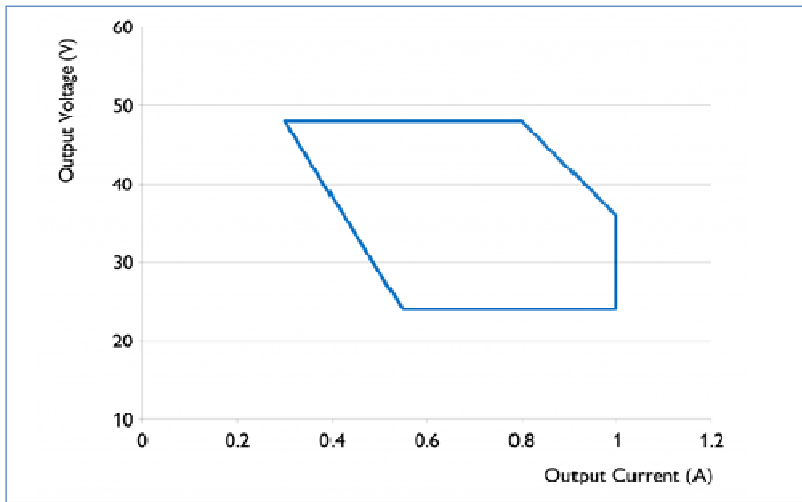
**DRIVER**

- ┌ LED ─ RED (POSITIVE)
- └─── BLUE (NEGATIVE)
- ┌ RSET ─ VIOLET (RSET2)
- └─── GREY / YELLOW (SGND)
- ┌ MAINS ─ GREEN (EARTH)
- └─── WHITE (NEUTRAL)
- BLACK (LINE)

Product Data	
Full product code	9290 015 08814
Full product name	Xitanium 36W 0.3-1A 48V 240V P2
Net weight per piece	160 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	0.18A @ 240V
Line Frequency	50/60 Hz
Envir. Protection Rating	IP 20
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 I <sub>max</sub>
Earth Leakage Current	0.7 mA Pk ( max)
Output Current Ripple	20% ( 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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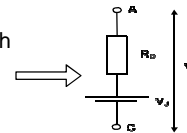
## Operating Window



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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## 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  $75^\circ\text{C}$  - 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 36W 0.3-1A 48V 240V P2	220 - 240	0.18	24 - 48	0.3 - 1.0	36

### 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 indoor application with environmental protection rating of IP 20.
- 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:

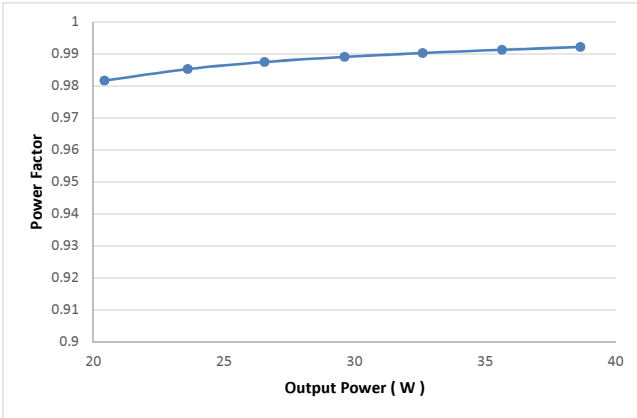
Model	Input Voltage, Hz	Max Case @ TC , °C
Xitanium 36W 0.3-1A 48V 240V P2	220 - 240 , 50/60	75

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

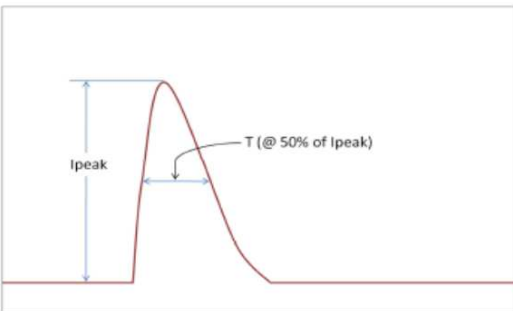
Model	Input Voltage, Hz	Leakage Current
Xitanium 36W 0.3-1A 48V 240V P2	220 - 240 , 50/60	0.7mA max.

	9290 015 08814
Brand Name	Xitanium
Description	Xitanium 36W 0.3-1A 48V 240V P2
Input Voltage	220 - 240V
Input Frequency	50 Hz
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Power Factor vs Output Power :

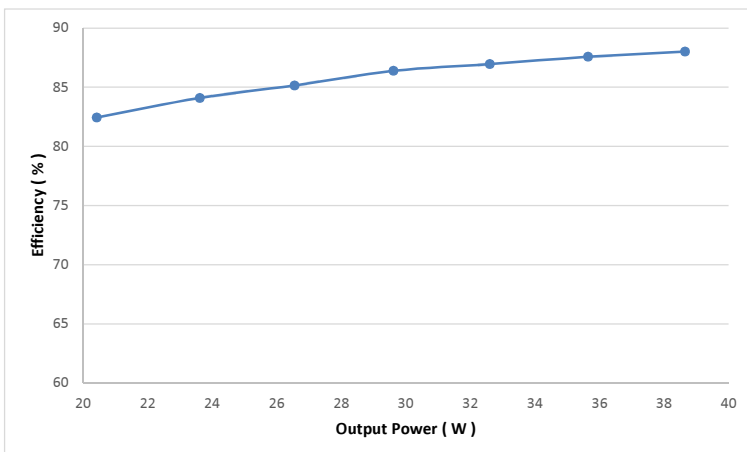


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
240 Vrms	23A	278 $\mu$ s

Efficiency vs Output Power :



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

Revised 03/11/2015

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