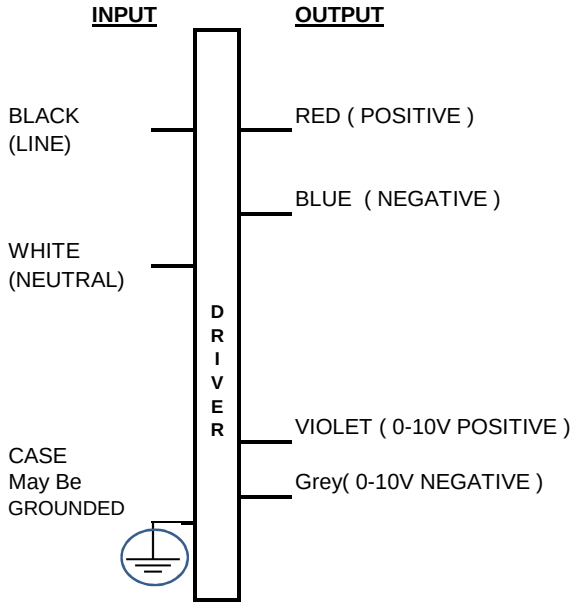
PHILIPS

Ordering 12NC	
Brand Name	Xitanium
Description	Xitanium 150W 0.7A 0-10V 240V I
Model Number	X150C070V210CNI1AO
Input Voltage	120 - 277V
Input Frequency	50 / 60 Hz
RoHS	Yes
Approbations	TBD- 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 (^{0}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
150	143 -214 *	0.7	@ 240V 90%	80	@ 240V 0.67	165	@ 240V 278/400	<10 @Max Load	> 0.95	4 / 4	0.825	Dry & Damp

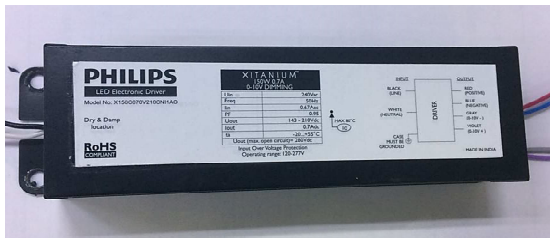
Wire Diagram



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	180
Case Width	59.2
Case Height	37.4
Mounting Length	195.2
Mounting Width	42.4
Overall Length	209.5

*** The driver can operate at an output voltage of 60 - 214V**

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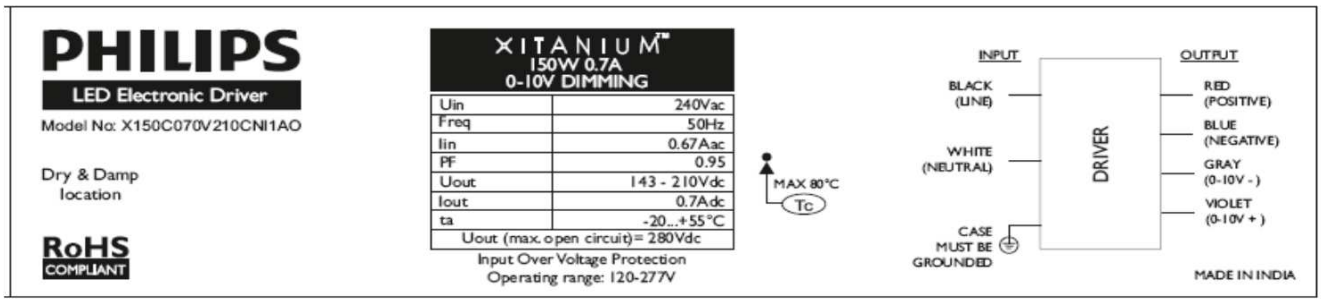

Product Data	
Full product code	
Full product name	Xitanium 150W 0.7A 0-10V 240V I
Net weight per piece	825 gms
Dimming	Yes (0-10V)
Ambient Temp. Range	-20^{0}C to +55^{0}C
Corresponding T case	+5^{0}C to +80^{0}C
Line Voltage (AC operation)	120 - 277V
Line Voltage (Performance)	140 - 270V
Line Current	0.67A @ 240V
Line Frequency	50/60 Hz
Envir. Protection Rating	Dry and Damp
Life at Tc 80 drgree C	50000 hrs (nom.)
Suitable For Outdoor Use	Yes
Max. Tc	80^{0}C
Inrush Current	278 Apk @ 240V
Max. Driver number on MCB 16A (Type B)	11 (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	+/- 7%of Imax
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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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^{0}C 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 150W 0.7A 0-10V 240V I	240	0.67	60 - 214	700	150

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 150W 0.7A 0-10V 240V I	240 , 50/60	80

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

Model	Input Voltage, Hz	Leakage Current
Xitanium 150W 0.7A 0-10V 240V I	240 , 50/60	0.7mA max.

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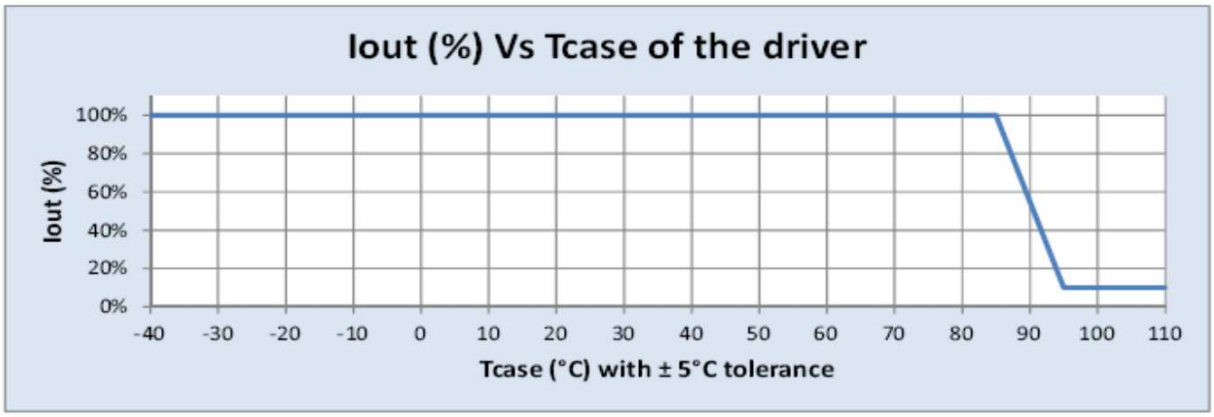
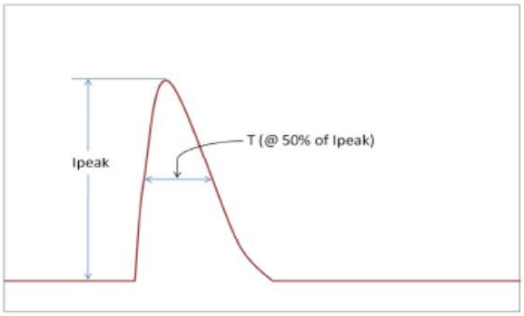
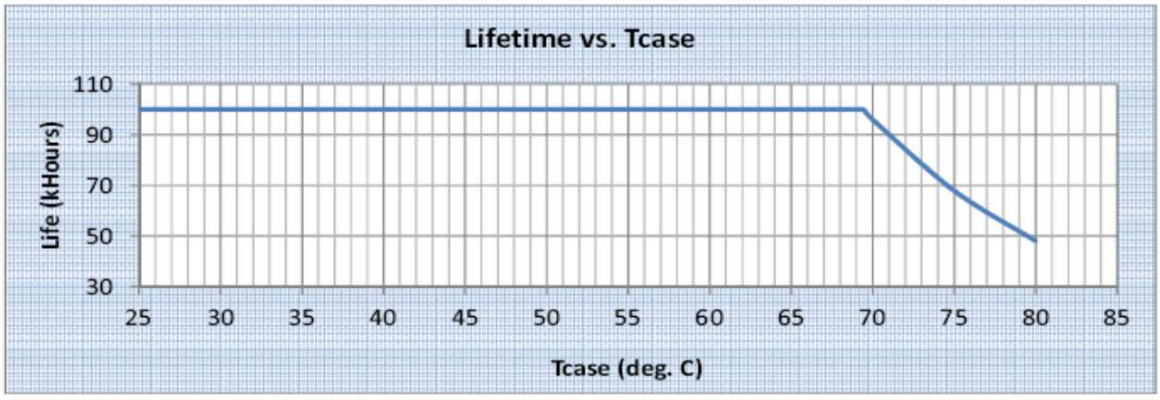


Inrush Current info :



Vin	Ipeak	T (@50% of Ipeak)
240 Vrms	278A	400 µs

Lifetime vs Tcase of Driver :



Failure rate info based upon field called rate data:
< 0.2% per 1 KHr @ ≤ T case 80ºC

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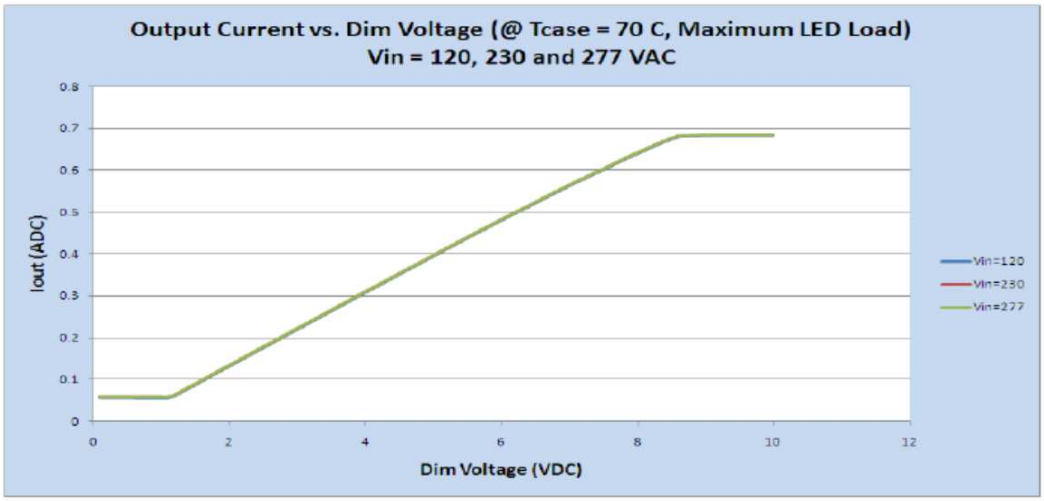
Electrical Specifications

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.



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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