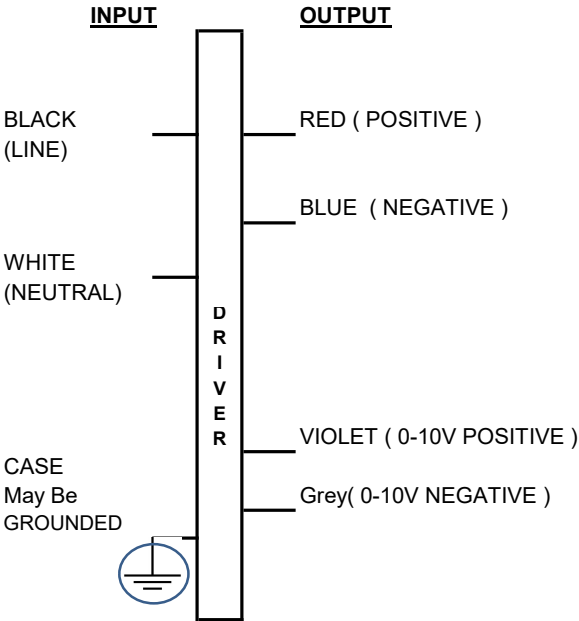




| | |
|-----------------|-----------------------------------|
| Ordering 12NC | 9290 014 77206 |
| Brand Name | Xitanium |
| Description | Xitanium 150W 0.7A 1-10V Dim 240V |
| Model Number | X150C070V210CNI1AO |
| Input Voltage | 240 V |
| Input Frequency | 50 / 60 Hz |
| RoHS | Yes |
| Approbations | 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 |
|------------------|--------------------|--------------------|------------------------|--------------------|----------------------|---------------------|-----------------------------|--------------------|------------------------|-------------------------------|-------------|--------------------------|
| 150 | 143 -214 * | 0.7 | @ 240V | 80 | @ 240V | 165 | @ 240V | <10 @Max Load | > 0.95 | 4 / 4 | 0.825 | Dry & Damp |
| | | | 90% | | 0.67 | | 278/400 | | | | | |

Wire Diagram

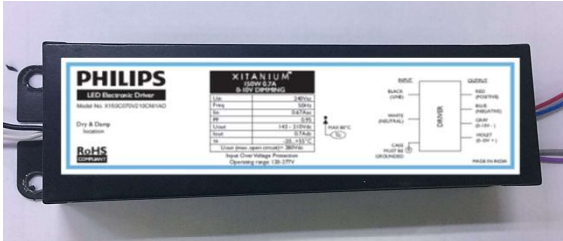


Input and output use lead-wires.
Lead-Wires are 18AWG 105C / 600V
Solid Copper

Lead Length
Standard lead length is 270mm (±30mm)
on all wires outside the can

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


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 |

PHILIPS

| | |
|-----------------|-----------------------------------|
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LED Electronic Driver

Model No: X150C070V210CNI1AO

Dry & Damp location

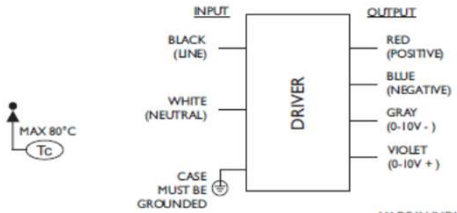
RoHS COMPLIANT

XITANIUM™
150W 0.7A
0-10V DIMMING

| | |
|------------------|--------------|
| U _{in} | 240Vac |
| Freq | 50Hz |
| I _{in} | 0.67Aac |
| PF | 0.95 |
| U _{out} | 143 - 210Vdc |
| I _{out} | 0.7Adc |
| ta | -20...+55°C |

U_{out} (max. open circuit) = 280Vdc

Input Over Voltage Protection
Operating range: 120-277V



MADE IN INDIA

| Product Data | |
|--|---|
| Full product code | 9290 014 77206 |
| Full product name | Xitanium 150W 0.7A 1-10V Dim 240V |
| Net weight per piece | 825 gms |
| Dimming | Yes (0-10V) |
| Ambient Temp. Range | -20°C to +55°C |
| Corresponding T case | +5°C to +80°C |
| Line Voltage (AC operation) | 120 - 277V |
| Line Voltage (CLO - Constant Light Output) | 120 - 277V |
| Line Voltage (Performance) | 240V +/-15% |
| Line Current | 0.67A @ 240V |
| Line Frequency | 50/60 Hz |
| Envir. Protection Rating | Dry and Damp (Potted Driver) |
| Life at Tc 80 degree C | 50000 hrs (nom.) |
| Suitable For Outdoor Use | Yes |
| Max. Tc | 80°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 ≥ 325V and Auto Recovery at 300 - 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 | +/- 7% 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 (no Load condition) | ≤ 7.0 W |



| | |
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| Model Number | X150C070V210CNI1AO |
| Input Voltage | 240 V |
| Input Frequency | 50 / 60 Hz |
| RoHS | Yes |
| 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 @ $T_c \leq 80^\circ\text{C}$
- 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 150W 0.7A 1-10V Dim 240V | 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:

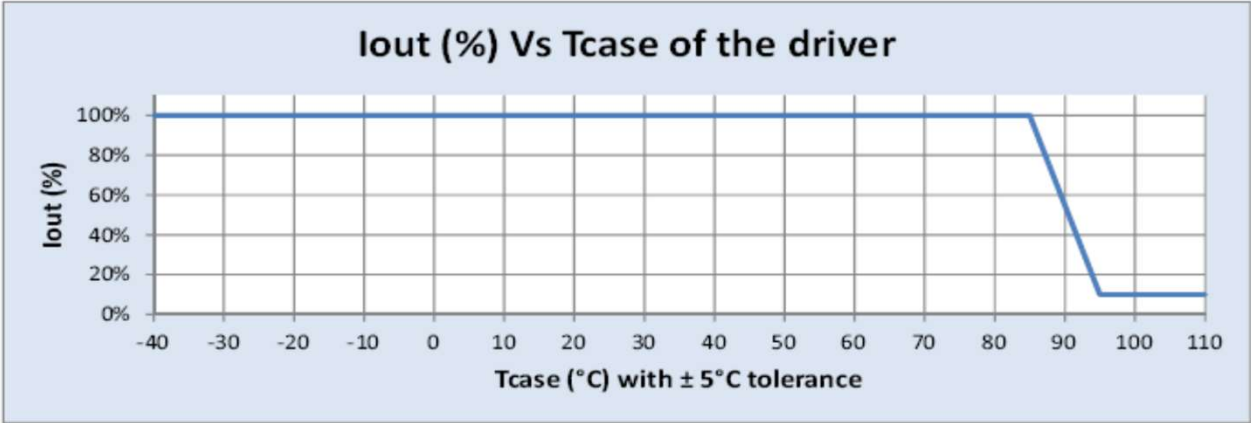
| Model | Input Voltage, Hz | Max Case @ T_C , $^\circ\text{C}$ |
|-----------------------------------|-------------------|-------------------------------------|
| Xitanium 150W 0.7A 1-10V Dim 240V | 240 , 50/60 | 80 |

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

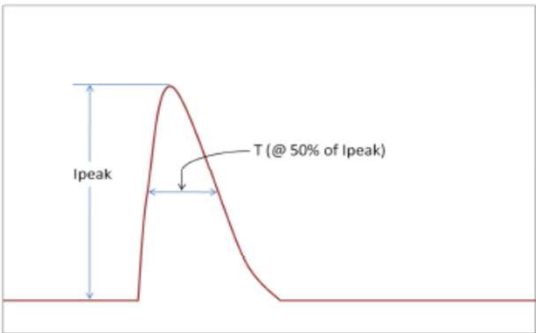
| Model | Input Voltage, Hz | Leakage Current |
|-----------------------------------|-------------------|-----------------|
| Xitanium 150W 0.7A 1-10V Dim 240V | 240 , 50/60 | 0.7mA max. |



| | |
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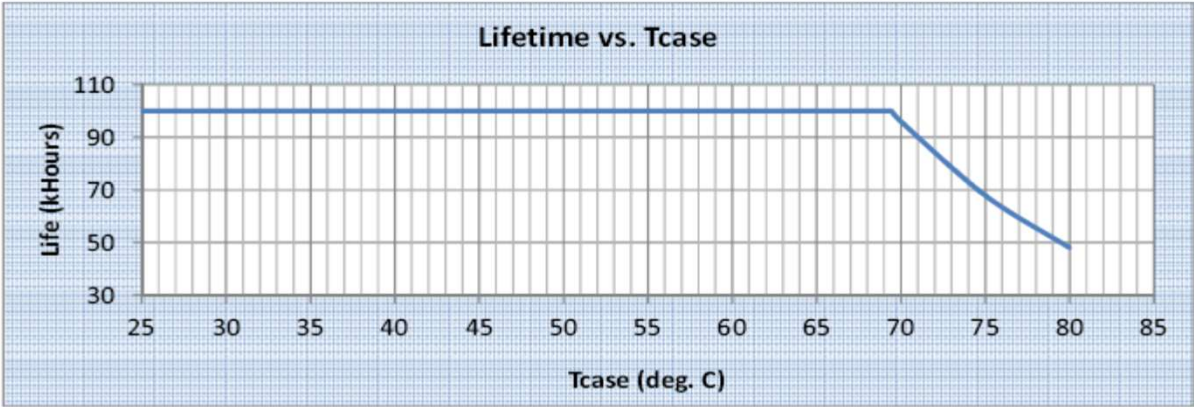


Inrush Current info :



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

Lifetime vs Tcase of Driver :



Failure rate info based upon field called rate data:
< 0.2% per 1 K Hr @ ≤ T case 80°C

| | |
|-----------------|-----------------------------------|
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| Brand Name | Xitanium |
| Description | Xitanium 150W 0.7A 1-10V Dim 240V |
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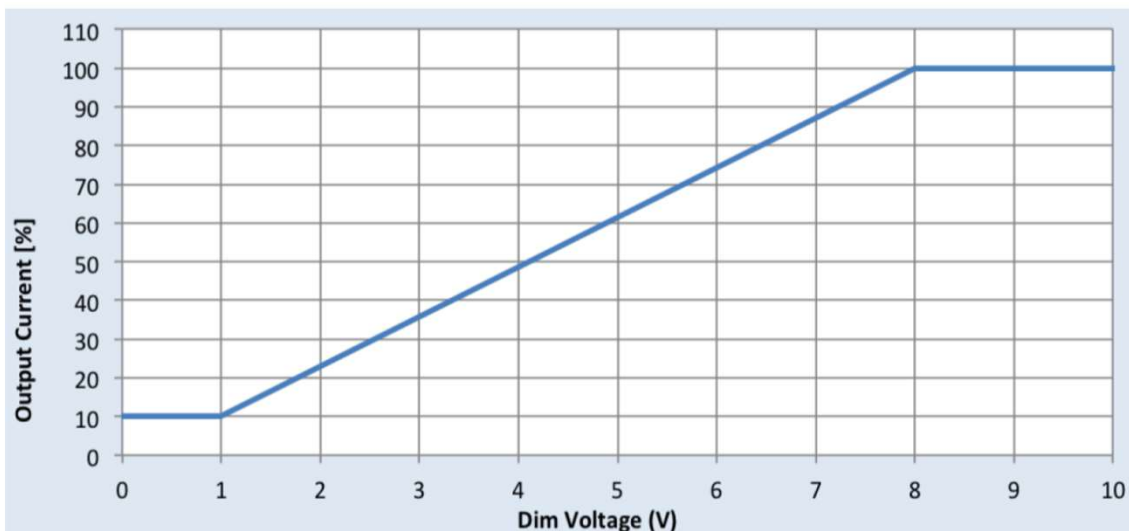
Electrical Specifications

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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India

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