

HALONIX TECHNOLOGIES PRIVATE LIMITED
(NABL CERTIFICATION NUMBER: TC-7634)
PLOT-5, SECTOR-12, IIE, SIDCUL, HARIDWAR-249403

TYPE TEST REPORT

Date: 11/02/2019

Product : 100W Driver for LED Bay Light suitable for 240V, 50Hz AC supply

Brand Name : HALONIX

Document references : IS 15885 (Part-2/Sec-13):2012, IS 16104:2012, IS 15885 (Part-1):2011, IS 14700 (Part-3/Sec-2), IEC 61347-2-13/EN 61347-2-13

| Sr. No. | Requirements | | Observation | Verdict |
|---------|------------------------------------|--|--|---------|
| 1 | Visual examination | The finishing and workmanship shall be OK and acceptable | Finishing and workmanship found to be OK and acceptable Satisfactory | Pass |
| 2 | Dimensions | Shall be as per TDS | As per TDS Satisfactory | Pass |
| 3 | Marking | The Clause 7 of IS 15885 (Pt.1):2011 shall apply, Shall be clear, durable and legible | HALONIX, Made In India, Integral, C.C Type, 240V _{AC} , 50Hz, 1Ø, Lamp type – LED Wiring dia. / Terminal positions, Rated wattage- 100W Satisfactory | Pass |
| 4 | Terminals | Shall comply with IS 10322(pt.3) | Comply with the standard | Pass |
| 5 | Provision for protective earthing | Shall comply with clause 9 of IS 15885(Pt.1) | Comply with the standard | Pass |
| 6 | Moisture resistance and insulation | Humidity test at 25°C ± 5°C and relative humidity at 95% for 48hrs Insulation resistance >2MΩ | No damage observed >2MΩ | Pass |

Halonix Technologies Pvt. Ltd.

Registered Office:
B-31, Phase II, Noida,
Distt. Gautam Budh Nagar, Uttar Pradesh - 201305
Tel: +91 120 4756100 | Fax: +91 120 4756101

Formerly known as Halonix Technologies Limited

Manufacturing Unit:
Plot No. 5, Sector-12, IIE, SIDCUL,
Haridwar, Uttarakhand - 249403
Tel: +91 9568152111 | Fax: +91 01334 230696

E-Mail: customercare@halonix.co.in
Website: www.halonix.co.in

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|----|---|--|---|--------------------------|
| 7 | Electric strength | Shall withstood a applied voltage of 1.5KV for 1 minute | Withstood the voltage (disconnecting the common mode MOV) Satisfactory | Pass |
| 8 | Fault condition | There shall be no emission of flames or molten material or of flammable gases under fault condition and protection against accidental contact shall not impaired | No emission of flames or molten material or of flammable gases and impairment of protection against accidental contact observed Satisfactory | Pass |
| 9 | Transformer heating Normal operation Abnormal operation | As per Clause 15 of IS 15885(Pt.2/Sec.13) As per Clause 15.1 of IS 15885(Pt.2/Sec.13) As per Clause 15.2 of IS 15885(Pt.2/Sec.13) | Meet the requirement Meet the requirement Meet the requirement Satisfactory | Pass Pass Pass |
| 10 | Construction | As per Clause 15 of IS 15885(Pt.1) | Meet the requirement Satisfactory | Pass |
| 11 | Cree page distance and clearance | As per Clause 16 of IS 15885(Pt.1) | < 1.7mm & <3.6mm Satisfactory | Pass |
| 12 | Screws, Current-carrying part and connection | As per IS 10322(Pt.3) | Meet with the requirement Satisfactory | Pass |
| 13 | Resistance to heat, fire & Tracking | On plastic materials only Resistance to heat Resistance to flame & Ignition | The diameter of impression <2mm The sample under test and any gas produced during the test doesn't ignite. Satisfactory | Pass Pass |
| 14 | Resistance to corrosion | As per IS 10322(Pt.1) | Meet with the requirement | Pass |
| 15 | EMI / EMC | The harmonic current shall not exceed the relative limits as per table 2 of IS:14700(Pt.3/Sec2) | Within the limit | Pass |

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Performance at test Voltage 240V

| | | | | |
|----|---------------------------------|--|---------------|--------------|
| 16 | Input Wattage | Power Consumption of the complete System, 100W \pm 10% | 99.71W | Pass |
| 17 | Input Power Factor | > 0.95 | 0.980 | Pass |
| 18 | Max. Input Current | <0.482A | 0.424A | Pass |
| 19 | THD | < 10% | 8.5% | Pass |
| 20 | Driver efficiency | >85% | 88.1% | Pass |
| 21 | Surge Protection | 5KV internal | Withstood 5KV | Pass Pass |
| 22 | Over voltage protection | 300V \pm 10V | 298V | Pass |
| 23 | Open & Short circuit protection | Protected against output open & short circuiting | Protected | Pass |



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