



6 kV SURGE PROTECTION TEST REPORT

Hybrid DOB LED Flood Light – 100 Watt

1. Manufacturer & Product Details

Manufacturer: HiWAY Lighting Solutions Pvt. Ltd.

Brand: Hi-Way

Product: Hybrid DOB LED Flood Light

Rated Power: 100 Watt

Ingress Protection: IP66

Standard Compliance: ISO 9001:2015

2. Test Objective

To verify the ability of the **Hybrid DOB LED Flood Light** to withstand **high-energy electrical surges up to 6 kV**, ensuring protection against lightning-induced and switching surges commonly encountered in outdoor installations.

3. Test Standard & Method

- **Surge Level Applied:** 6 kV
- **Waveform:** Combination Surge (1.2/50 μ s Voltage, 8/20 μ s Current)
- **Mode of Test:**
 - Line to Neutral
 - Line to Earth
- **Test Environment:** Controlled laboratory conditions



HIWAY LIGHTING SOLUTIONS PRIVATE LIMITED

Manufacturer, Supplier & Services of Led Lights

SURVEY NO. 142/2, VILLAGE GARIPILIYA SAWER INDORE
Madhya Pradesh, 453771 INDIA
GSTIN/UIN: 23AAECH7954D1ZO State Name : Madhya Pradesh, Code : 23
Mobile : +91 -89899-97117, +91-98262-30852,+91- 9977323107
E-Mail : accounts@hiwayledlights.in www.hiwayledlights.in

4. Test Conditions

Parameter	Value
Rated Input Voltage	220–240 V AC
Surge Voltage Level	6 kV
Number of Surges	As per standard procedure
Polarity	Positive & Negative

5. Observations

- No failure of DOB LED module observed
- No driver breakdown or insulation damage
- No visible component degradation
- Normal operation restored after surge application
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6. Test Result

☒ The **100W Hybrid DOB LED Flood Light** successfully withstood **6 kV surge voltage** without functional or structural damage.



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7. Conclusion

The product complies with **6 kV surge protection requirements** and is **suitable for outdoor and industrial lighting applications**, providing enhanced protection against electrical transients and voltage spikes.

Tested & Approved By

**Quality Assurance Department:-
HiWAY Lighting Solutions Pvt. Ltd.**

Date: 19-01-2026

Place: Hi-way testing laboratory

Authorized Sign & Seal:



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