

# Underwriters Laboratories (UL LLC) Safety Certification (Manufacturing Factory) Report



Model: H0503S-1WR2\*, H0505S-1WR2\*, H0512S-1WR2\*, H0515S-1WR2\*, H1205S-1WR2\*, H1212S-1WR2\*, H1215S-1WR2\*, H2405S-1WR2\*, H2412S-1WR2\*, H2415S-1WR2\*, H0505S-2WR2\*, H0512S-2WR2\*, H0515S-2WR2\*, H1205S-2WR2\*, H1212S-2WR2\*, H1215S-2WR2\*, H2405S-2WR2\*, H2412S-2WR2\*, H2415S-2WR2\*, H1505S-2WR2\*, "" means blank or "-TW" or "-xy", among them: the "-TW" model means product shipped to a unique customer; the "-xy" model represents a customer model, "x" means any letter from A to Z, and "y" means any number from 0 to 9. These suffixes represent variations or selections that are not related to safety.

Manufacturing Facility(ies): Mornsun (HuaiHua) Science & Technology Co Ltd  
No.16, Jianshe Avenue  
High-tech Industrial Development District  
Huaihua, Hunan, 418000 CHINA

Applicant: MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY LTD  
No.8, Nanyun Road 4, Huangpu District,  
Guangzhou, Guangdong, 510670, P.R.China.  
E347375

Listee: Same as Applicant  
Listee File No.:

Report No.: E347375-D1002-1/A4/C1  
Report (Re)Issue Date: 2016-4-27; 2022-09-22(A4/C1)

Standard(s): ANSI/AAMI ES60601-1 (2005/(R)2012 + A1:2012, C1:2009/(R)2012 + A2:2010/(R)2012) - Amendment 1 - Revision Date 2012/08/21  
CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 - Revision Date 2014/03

Additional Standards: ANSI/AAMI ES60601-1 (2005/(R)2012 + A1:2012, C1:2009/(R)2012 + A2:2010/(R)2012) - Amendment 1 - Revision Date 2012/08/21  
CAN/CSA-C22.2 No. 60601-1:14 - Edition 3 - Revision Date 2014/03

Report Types: This report consists of the following report types:  
[ Yes ] US Certification (UL Recognition)  
[ Yes ] CAN Certification (cUL Recognition)

You are receiving this report as a Manufacturing Factory for the above-referenced Applicant.

This report covers the Safety evaluation of the referenced model(s) according to the standard(s) specified above.

This report includes portions of the full Applicant report and is designed to support any Follow-Up inspections at the Manufacture's facility.

Please refer to any Supplements to this document for a detailed manufacturer report, which includes information for the Follow-Up Inspection as specified below:

- **Appendix C:** Follow-Up Service Documentation
- **Appendix A:** Enclosures

# Report Modifications Summary

The following changes were made to this report. If none listed in the below table, this report is the originally issued report.

NOTE: Some of the changes listed below were made in the full report and may not reflect the changes in this associated Factory Report, which just includes the Appendices listed above from the main report.

| Date Modified<br>(Year-Month-Day) | Modifications Made (include Report Reference Number)   | Modified By         |
|-----------------------------------|--|---------------------|
| 2016-05-19                        | Corrected the PCB layout. (E347375-D1002-1/A0/C1)  | Jelly Li / Clare He |
| 2017-03-21                        | Add alternate model H1505S-2WR2 (E347375-D1002-1/A1/C1)  | Eileen Hu/Clare He  |
| 2020-12-18                        | <p>Project 4789630160; E347375-D1002-1/A2/C1</p> <p>1. Change model designations from: H0503S-1WR2, H0505S-1WR2, H0512S-1WR2, H0515S-1WR2, H1205S-1WR2, H1212S-1WR2, H1215S-1WR2, H2405S-1WR2, H2412S-1WR2, H2415S-1WR2, H0505S-2WR2, H0512S-2WR2, H0515S-2WR2, H1205S-2WR2, H1212S-2WR2, H1215S-2WR2, H2405S-2WR2, H2412S-2WR2, H2415S-2WR2, H1505S-2WR2 to: H0503S-1WR2*, H0505S-1WR2*, H0512S-1WR2*, H0515S-1WR2*, H1205S-1WR2*, H1212S-1WR2*, H1215S-1WR2*, H2405S-1WR2*, H2412S-1WR2*, H2415S-1WR2*, H0505S-2WR2*, H0512S-2WR2*, H0515S-2WR2*, H1205S-2WR2*, H1212S-2WR2*, H1215S-2WR2*, H2405S-2WR2*, H2412S-2WR2*, H2415S-2WR2*, H1505S-2WR2*, "**" means blank or "-TW" or "-xy", among them: the "-TW" model means product shipped to a unique customer; the "-xy" model represents a customer model, "x" means any letter from A to Z, and "y" means any number from 0 to 9. These suffixes represent variations or selections that are not related to safety;</p> <p>2. Change the applicant address from "5 KEHUI ST 1 KEHUI DEVELOPMENT CENTER SCIENCE AVE, GUANGZHOU SCIENCE CITY, LUOGANG DISTRICT GUANGZHOU, GUANGDONG shanghai" to "No.8, Nanyun Road 4, Huangpu District, Guangzhou, Guangdong, 510670, P.R.China";</p> <p>3. Update the critical components list</p> <ul style="list-style-type: none"> <li>- Update the model of plastic enclosure (WAH HONG INDUSTRIAL CORP) from WH-9100 to WH-9100 (G1)(G2);</li> <li>- Add new alternate source of RESIN (filled within unit): VB U 6942 + VB U 001/B / HUNTSMAN ADVANCED MATERIALS (SWITZERLAND) GMBH;</li> <li>- Add new source model TEX-EA / FURUKAWA ELECTRIC CO LTD;</li> </ul> <p>4. Below amendments were specific to models H0505S-2WR2*, H0512S-2WR2*, H1212S-2WR2*, H2405S-2WR2*, H2412S-2WR2*, H2415S-2WR2*, H0503S-1WR2*, H0505S-1WR2*, H0512S-1WR2*, H0515S-1WR2*, H1205S-1WR2*, H1212S-1WR2*, H1215S-1WR2*, H2405S-1WR2*, H2412S-1WR2*:</p> <ul style="list-style-type: none"> <li>- Add components: Resistance R2, Diode IC1 in order to optimize the circuit, not relating to safety aspect.</li> </ul> | Paul Zhang          |

|            |   |                                 |
|------------|---|---------------------------------|
|            | - Update the circuit diagram and PCB layout.  |                                 |
| 2021-12-27 | Add alternate transformer insulation system (E347375-D1002-1/A3/C1)   | Claire Xiao (T) /<br>Ricky Wang |
| 2022-09-22 | 1.Change wrapping type of all transformer insulation tape;<br>2.Update factory to "Mornsun (HuaiHua) Science & Technology Co., Ltd. Address: No.16, Jianshe Avenue, High-tech Industrial Development District, Huaihua, Hunan, China."<br>(E347375-D1002-1/A4/C1) | Cynthia Xiao(T) /<br>Rocky Tan  |