



# CERTIFICATE OF PARTICIPATION

Issued by  
**Underwriters Laboratories Inc.**

**Cerpass Technology (Dongguan) Co Ltd.**  
1st Floor, 10 Taida Rd.  
Changan  
Dongguan, Guangdong, 523850 China

has been assessed and found to be eligible to participate in Underwriters Laboratories Inc.

## Client Test Data Program (CTDP)

DA File : DA449  
Issued: November 6, 2008  
Expires: November 6, 2009

A handwritten signature in black ink, appearing to read 'Jodine Hepner', is written over a horizontal line.

Jodine Hepner

Global Process Owner, Data Acceptance Program



## AACA.AG388 Agency Certification Program

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### Agency Certification Program

[See General Information for Agency Certification Program](#)

**CERPASS TECHNOLOGY (DONGGUAN) CO LTD**

AG388

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CHANGAN

DONGGUAN, GUANGDONG 523850 CHINA

**Phone:** 86-769-8547 1212

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### Type: Administrative

**UL Product Categories:**

**AZSQ** — Audio/Video Apparatus

**AZSQ2** — Audio/Video Apparatus - Component

**AZSQ7** — Audio/Video Apparatus Certified for Canada

**AZSQ8** — Audio/Video Apparatus Certified for Canada - Component

**NWGQ** — Information Technology Equipment Including Electrical Business Equipment

**NWGQ2** — Information Technology Equipment Including Electrical Business Equipment - Component

**NWGQ7** — Information Technology Equipment Including Electrical Business Equipment Certified for Canada

**NWGQ8** — Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component

**QQGQ** — Power Supplies, Information Technology Equipment Including Electrical Business Equipment

**QQGQ2** — Power Supplies, Information Technology Equipment Including Electrical Business Equipment - Component

**QQGQ7** — Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada

**QQGQ8** — Power Supplies, Information Technology Equipment Including Electrical Business Equipment Certified for Canada - Component

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**Certification Date:** December 27, 2006

[Last Updated](#) on 2007-01-05

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Test Qualification List  
(TQL)

Standard Number	Standard Title	Test Name
UL 60950/ UL 60950-1	Safety of Information Technology Equipment	Maximum Output Voltage, Current, and Volt- Ampere Measurement Test Double or Reinforced Insulation Bridged By Components Double or Reinforced Insulation Bridged By Components "Annex D Method" Input Test: Single-Phase Input Test: Polyphase Energy Hazard Measurements Capacitance Discharge Test Selv Reliability Test TNV-1, TNV-2, TNV-3 LIMITS (NORMAL - Transmitting Signals - Data/Voice) TNV-1, TNV-2, TNV-3 LIMITS (SINGLE FAULT - Transmitting Signals - Data/Voice) Criteria For Telephone Ringing And Other Signals Test (Method A Europe) Criteria For Telephone Ringing Test (Method B North America) Limited Current Circuit Measurement Limited Power Source Measurements Earthing Test I & II Switches And Relays In Interlock Systems Humidity Test Determination of Working Voltage; Voltage Measurements Test Determination of Working Voltage; Hazardous Voltage (Circuit) Measurement Test Transformer/Insulation Electric Strength Test Strain Relief Test Stability Tests Steady Force Tests (Cont.)



Test Qualification List  
(TQL)

Standard Number	Standard Title	Test Name
UL 6500 / UL 60065 / CSA 60065	Safety of Audio, Video and Similar Electronic Apparatus	<p>INPUT TEST FOR UNITS NOT EMPLOYING AN AUDIO AMPLIFIER OR SIGNAL INPUT SOURCE (CLAUSE 4.2, 5.1g,i)</p> <p>INPUT TEST FOR UNITS EMPLOYING AN AUDIO AMPLIFIER (CLAUSE 4.2.4, 5.1i)</p> <p>INPUT TEST FOR TELEVISION RECEIVERS / MONITORS (CLAUSE 4.2, 5.1g,i)</p> <p>INPUT TEST FOR ANTENNA POSITIONERS (CLAUSE 4.2.9, 5.1i)</p> <p>FAULT CONDITIONS (CLAUSE 4.3, 11)</p> <p>FAULT CONDITIONS: ELECTRONIC COMPONENTS (CLAUSE 4.3.3/4.3.4)</p> <p>FAULT CONDITIONS: VENTILATION OPENINGS BLOCKED (CLAUSE 4.3.10)</p> <p>FAULT CONDITIONS, MAXIMUM POWER FOR AUDIO AMPLIFIER (CLAUSE 4.3.5)</p> <p>FAULT CONDITIONS, FAN FAILURE / STALLED ROTOR (CLAUSE 4.3.6)</p> <p>FAULT CONDITIONS, BLOCKED SOLENOID (CLAUSE 4.3.7)</p> <p>FAULT CONDITIONS, VOLTAGE MISMATCH (CLAUSE 4.3.13)</p> <p>FAULT CONDITIONS, REVERSED POLARITY TEST ON BATTERIES (CLAUSE 4.3.11)</p> <p>FAULT CONDITIONS, MAINS SOCKET-OUTLET OVERLOAD (CLAUSE 4.3.9)</p> <p>DIELECTRIC STRENGTH AFTER FAULT CONDITIONS (CLAUSE 10.3, TABLE 5)</p> <p>TOUCH CURRENT AFTER FAULT CONDITIONS (CLAUSE 9.1.1.1)</p> <p>MARKING DURABILITY AND LEGIBILITY (CLAUSE 5)</p> <p>HEATING UNDER NORMAL OPERATING CONDITIONS (CLAUSE 7)</p> <p>HEATING UNDER NORMAL OPERATING CONDITIONS ANTENNA POSITIONERS (CLAUSE 7)</p> <p>HUMIDITY TREATMENT OF HYGROSCOPIC INSULATING MATERIALS (CLAUSE 8.3)</p> <p>(cont')</p>





Test Qualification List  
(TQL)

<u>Standard Number</u>	<u>Standard Title</u>	<u>Test Name</u>
UL 1310	CLASS 2 POWER UNITS	Working Voltage Measurements Leakage Current Test Dielectric Voltage Withstand Test Following Leakage Current Test Maximum Output Voltage Test Normal Input Test Maximum Input Test Transformer Characteristics Test Output Current And Power Test Dielectric Voltage Withstand Test After Output Current And Power Test Calibration Of Overcurrent Protection Devices Test Dielectric Voltage Withstand Test After Calibration Of Overcurrent Protection Devices Test Full-Load Output Current Test Normal Temperature Test Dielectric Voltage Withstand Test Induced Potential Test Output Loading Test Dielectric Voltage Withstand Test After Output Loading Test Transformer Burnout Test Dielectric Voltage Withstand Test After Transformer Burnout Test Reverse Polarity Test Dielectric Voltage Withstand Test After Reverse Polarity Test

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Test Qualification List (Cont.)  
(TQL)

Standard Number	Standard Title	Test Name
UL1012	POWER UNITS OTHER THAN CLASS 2	Leakage Current Test Power Input Test Temperature Test Dielectric Voltage Withstand Test Induced potential test Maximum-voltage measurements Tests on Insulating Materials Mechanical Strength Tests for Metal Enclosures Strain Relief and Bushing Push-Back Relief Test Static Load Test Stability Test Overcurrent Protection Calibration Test Neutral to Ground Potential Measurement Test Output short-circuit test Blocked fan test Voltage selector test Transformer overload tests Component short- and open-circuit test Backfeed protection Evaluation of reduced spacings on printed-wiring boards Reverse polarity test Capacitor Test

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Test Qualification List  
(TQL)

Standard Number	Standard Title	Test Name
UL2089	Vehicle Battery Adapters	Maximum Output Voltage Test
		Power Input Test
		Temperature Test
		Reverse Polarity Test
		Component Failure Test
		Battery Supply Cord Short Circuit Test
		Abnormal Temperature Test
		Dielectric Voltage-Withstand Test
		Resistance To Crushing Test
		Strain Relief Test
Push-Back Relief Test		

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Test Qualification List  
(TQL)

Standard Number	Standard Title	Test Name
UL 697	Toy Transformer	LEAKAGE CURRENT TEST  LEAKAGE CURRENT AND DIELECTRIC WITHSTAND AFTER HUMIDITY CONDITIONING TEST  OPEN-CIRCUIT SECONDARY VOLTAGE TEST  POWER INPUT TEST  OUTPUT TEST  HEATING TEST  SHORT CIRCUIT HEATING TEST  OUTPUT LOADING TEST  COMPONENT BREAKDOWN TEST  PRINTED-WIRING BOARD ABNORMAL OPERATION TEST  DIELECTRIC VOLTAGE-WITHSTAND TEST  POWER SUPPLY STRAIN RELIEF TEST  OUTPUT CORD STRAIN RELIEF TEST  ABUSE TEST  BLADE SECURENESS TEST  SECURITY OF INPUT CONTACTS  ROD PRESSURE TEST  RESISTANCE TO CRUSHING TEST  MOLD STRESS RELIEF DISTORTION  TRANSFORMER INSULATING MATERIALS

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