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Correction 1 2005-09-29

SPECIFIC TECHNICAL CRITERIA

UL 60950-1, First Edition Information technology equipment - Safety-Part 1: General Requirements

Report Reference No E204980-A6-UL-1

Compiled by Davide Lin

Reviewed by Sam Hsu

Date of issue 2005-09-26

Standards UL 60950-1:2003, First Edition

CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003

Test procedure Component Recognition

Non-standard test method: N/A

Test item description Power Supply

Trademark None

IOPS045S05, IOPS050S12, IOPS050S15 and IOPS050S24.

Rating(s) I/P:

100-240 Vac, 50/60 Hz,

1.2A for Models ALS50 series and IOPS045S05, IOPS050S12, IOPS050S15 and IOPS050S24; 0.7A for Model IOPS030S03

O/P:

For Models ALS50-3.3 and OPS030S03: 3.3Vdc, 9.1 A For Models ALS50-5 and IOPS045S05: 5 Vdc, 9 A For Models ALS50-12 and IOPS050S12: 12 Vdc, 4.2 A For Models ALS50-15 and IOPS050S15: 15 Vdc, 3.4 A For Models ALS50-24 and IOPS050S24: 24 Vdc, 2.1 A

Particulars: test item vs. test requirements

Equipment mobility: for building-in Operating condition: continuous

Mains supply tolerance (%): +10%, -10%

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Possible test case verdicts:

- test case does not apply to the test object N / A

- test object does meet the requirement Pass

- test object does not meet the requirement: Fail (acceptable only if a corresponding, less stringent

national requirement is "Pass")

General remarks:

- "(see Enclosure #)" refers to additional information appended to the Test Report

- "(see appended table)" refers to a table appended to the Test Report
- Throughout the Test Report a point is used as the decimal separator

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472 Vrms, Max 290 Vpk,

CF1.5

CF1.7

CF1.11

CF1.12

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GENERAL PRODUCT INFORMATION: CA1.0 **Report Summary** CA1.1 N/A **CB1.0 Product Description CB1.1** Electronic components mounted on PWB. CC1.0 **Model Differences** CC1.1 - Models ALS50-5, ALS50-12, ALS50-15, ALS50-24, IOPS045S05, IOPS050S12, IOPS050S15 and IOPS050S24 are similar with Model ALS50-3.3 except for model designation and output rating. Model IOPS030503 is similar with Model ALS50-3.3 except for model designation and input rating. CD1.0 Additional Information CD1.1 N/A CE1.0 **Technical Considerations** CE1.2 The product was submitted and tested for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: - 50°C (output loading 100%), - 60°C (output loading 70%) CE1.3 The means of connection to the mains supply is: Permanently connected (field wired) CE1.4 The product is intended for use on the following power systems: TN CE1.14 The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual CF1.0 **Engineering Conditions of Acceptability** CF1.1 For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following: CF1.3 The end-product Electric Strength Test is to be based upon a maximum working voltage of: Max

The power supply terminals and/or connectors are: Suitable for factory wiring only,

The following secondary output circuits are at non-hazardous energy levels: All secondary outputs.

The following secondary output circuits are SELV: All secondary outputs,

The maximum investigated branch circuit rating is: 20 A

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CF1.13	The investigated Pollution Degree is: 2
CF1.15	Proper bonding to the end-product main protective earthing termination is: Required
CF1.16	An investigation of the protective bonding terminals has: Not been conducted
CF1.18	The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): T1 (Class B)
CF1.19	The following end-product enclosures are required: Electrical, Fire
CF1.23	The equipment is suitable for direct connection to: AC mains supply