

File E341988
Project 4788828605

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REPORT

on

Audio/Video, Information and Communication Technology Equipment

APACER TECHNOLOGY INC
NEW TAIPEI, TAIWAN

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UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CAN/CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Certification Type:	Recognized Component
CCN:	AZOT2, AZOT8 (Components – Audio/Video, Information and Communication Technology Equipment)
Complementary Certification CCN:	N/A
Product:	SSD
Model:	SX24X-25 (X=A~Z, 0~9)
Rating:	Optional, 5Vdc, 1500mA
Applicant Name and Address:	APACER TECHNOLOGY INC 1F 32 ZHONGCHENG RD TUCHENG DISTRICT NEW TAIPEI 236 TAIWAN

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Prepared by: Denny Lin

Reviewed by: Rick Li

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report
- C. Listing Mark/Recognized Component Mark Data Page - details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

There are two types of SSD, build-in and movable/transportable. Build-in SSD is used inside of desktop, and movable/transportable SSD is used outside of laptop. Electrical components mounted on PWB and housed within plastic/metal enclosure.

Model Differences

All models are identical except for model designation and no safety consideration.

Test Item Particulars (NOT FOR FIELD REPRESENTATIVE'S USE)

Classification of installation and use by.....: Ordinary person Instructed person
 Skilled person Children likely to be present
 (for movable/transportable SSD)

Supply Connection.....: pluggable equipment type A type B
 permanent connection
 detachable power supply cord
 non-detachable power supply cord
 not directly connected to the mains

Equipment mobility: movable hand-held transportable
 stationary for building-in direct plug-in
 rack-mounting wall-mounted

Over voltage category (OVC): OVC I OVC II OVC III OVC IV
 other: not directly connected to the mains

Fundamental Frequency.....: 50/60 Hz 50 Hz 60 Hz other_50-60_Hz

Class of equipment: Class I Class II Class III
 Not classified

Access location: restricted access location N/A

Pollution degree (PD): PD 1 PD 2 PD 3

IP protection class: IP X0 IP ____

Tested for IT power systems: Yes No

IT testing, phase-phase voltage (V): ____ N/A

Altitude during operation (m): Up to 2,000 Up to 5000

Altitude of test laboratory (m): Less than 2,000 Approximately ____

Mass of equipment (kg): Maximum 0.0631 kg

Technical Consideration (NOT FOR FIELD REPRESENTATIVE'S USE)

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 85°C.
- The SSD is intended for build-in and supplied by a D.C. power source (ES1 and PS3), or intended for movable/transportable and supplied by a D.C. power source (ES1 and PS2).

[X] Engineering Conditions of Acceptability (NOT FOR FIELD REPRESENTATIVE'S USE)

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- For build-in SSD, the accessibility for ordinary person shall be evaluated in the end product.
- The suitable Symbol/Markings/Instruction and Manual should be evaluated in end product investigation.
- The following end-product enclosures are required for build-in SSD: Fire
- For build-in SSD, the suitability of all electrical connections made to the device shall be determined in the end-use product.
- For build-in SSD, thermal related test should be considered in end-product.

Additional Information

Maximum normal load is defined as following:

Cross reading and writing data between SSD in max speed.

Additional Standard

The product fulfils the requirements of: N/A

Markings, instructions and instructional safeguards						
Clause Title		Marking or Instruction Details				
		English			French	
Equipment identification marking – Manufacturer identification		Listee's or Recognized company's name, Trade Name, Trademark or File Number				
Equipment identification marking – model identification		Model Number				
Special Instructions to UL Representative						
N/A						
Production-Line Testing Requirements						
<u>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</u>						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
N/A	--	--	--	--	--	--
<u>Earthing Continuity Test Exemptions - This test is not required for the following models:</u>						
All models in this report						
<u>Electric Strength Test Exemptions - This test is not required for the following models:</u>						
All models in this report						
<u>Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:</u>						
N/A						
<u>Sample and Test Specifics for Follow-Up Tests at UL</u>						
Model	Component	Material	Test	Sample(s)	Test Specifics	
N/A	--	--	--	--	--	

4.1.2	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Enclosure	--	--	Two piece construction secured together by screws, overall approximate 100mm by 70mm by 6mm	--	--	--
01-1. Metal of Enclosure	--	--	Metal (AL)	--	--	--
01-2. Plastic material of Enclosure	Interchangeable	Interchangeable	Rated V-2, RTI minimum 95 degree C.	QMFZ2	UL	--
02. Rating Marking - Label	Interchangeable	Interchangeable	Rated minimum 95 degree C, suitable for surface applied to Enclosure.	PGDQ2 or PGJI2	UL	--
03. Printed Wiring Board	Interchangeable	Interchangeable	Rated minimum V-1, minimum 105 degree C.	ZPMV2	UL	--
04. Connectors and Receptacles (Provided on ES1 circuit)	Interchangeable	Interchangeable	Minimum V-2.	QMFZ2	UL	--

ENCLOSURES

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Figures	Figure-01	External view-1
	Figure-02	External view-2
	Figure-03	External view-3
	Figure-04	External view-4
	Figure-05	Internal view-1
	Figure-06	Internal view-2
	Figure-07	Main board view-1
	Figure-08	Main board view-2