

ICEPOWER A/S VANDTARNSVEJ 62A, 3B 2860 SOBORG, DENMARK

Section 1 Declaration of Conformity

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**Declaration of Conformity** 

## Supplier's declaration of conformity



As required by the following Notices:

- > Radiocommunications (Compliance Labelling Devices) Notice 2014 made under section 182 of the Radiocommunications Act 1992;
- Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2017 made under section 182 of the Radiocommunications Act 1992
- Radiocommunications (Compliance Labelling Electromagnetic Radiation) Notice 2014 made under section 182 of the Radiocommunications Act 1992 and
- > Telecommunications (Labelling Notice for Customer Equipment and Customer Cabling) Instrument 2015 made under section 407 of the Telecommunications Act 1997.

#### Instructions for completion

> **Do not return this form to the ACMA**. This completed form must be retained by the supplier as part of the documentation required for the compliance records and must be made available for inspection by the ACMA when requested.

#### Supplier's details (manufacturer, importer or authorised agent)

Company Name (OR INDIVIDUAL)

Crestron ANZ Pty Limited
TRADING AS:

ACN/ARBN

ACN 604 568 461 / ARBN 13 604 567 461

OR

New Zealand IRDN

Street Address (AUSTRALIAN or NEW ZEALAND)

Level 5, 16 Help Street

Chastswood, NSW, Australia

POSTCODE NWS 2067

Phone: 1800 555 040

#### Product details and date of manufacture

Product description - brand name, type, current model, lot, batch or serial number (if available), software/firmware version (if applicable)

Audio Amplifier, Brand: CRESTRON, model: M1845006 (SKU: AMP-X300)

Ratings: 100-240V~, 1.2-0.6A, 50/60Hz,

Date of manufacture or importation of the original/modified item:

#### Compliance – applicable standards and other supporting documents

Evidence of compliance with applicable standards may be demonstrated by test reports, endorsed/accredited test reports, certification/competent body statements.

Having had regard to these documents, I am satisfied the above mentioned product complies with the requirements of the relevant ACMA Standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997.

List the details of the documents the above statement was made, including the standard title, number and, if applicable, number of the test report/endorsed test report or certification/competent body statement

EMC test report issued by EKTOS TRS A/S; test report number: P19-0165-1 rev. 2

EN 55032:2012 + AC:2013: Electromagnetic compatibility of multimedia equipment – Emission requirements

EN 55024:2010 + A1:2015: Information technology equipment - Immunity characteristics - Limits and methods of measurements

EN 55035:2017: Electromagnetic compatibility of multimedia equipment – Immunity requirements

#### Declaration

I hereby declare that:

- 1. I am authorised to make this declaration on behalf of the Company mentioned above,
- 2. the contents of this form are true and correct, and
- 3. the product mentioned above complies with the applicable above mentioned standards and all products supplied under this declaration will be identical to the product identified above.

Note: Under section 137.1 of the Criminal Code Act 1995, it is an offence to knowingly provide false or misleading information to a Commonwealth entity. Penalty: 12 months imprisonment

SIGNATURE OF SUPPLIER OR AGENT	POSITION IN ORGANISATION Compliance Manager
PRINT NAME Gary Freed	DATE

The *Privacy Act 1988* (Cth) (the Privacy Act) imposes obligations on the ACMA in relation to the collection, security, quality, access, use and disclosure of personal information. These obligations are detailed in the Australian Privacy Principles.

The ACMA may only collect personal information if it is reasonably necessary for, or directly related to, one or more of the ACMA's functions or activities.

The purpose of collecting the personal information in this form is to ensure the supplier is identified in the 'Declaration of conformity'. If this Declaration of Conformity is not completed and the requested information is not provided, a compliance label cannot be applied.

Further information on the Privacy Act and the ACMA's Privacy Policy is available at <u>www.acma.gov.au/privacypolicy</u>. The Privacy Policy contains details about how you may access personal information about you that is held by the ACMA, and seek the correction of such information. It also explains how you may complain about a breach of the Privacy Act and how we will deal with such a complaint.

Should you have any questions in this regard, please contact the ACMA's privacy contact officer on telephone on 1800 226 667 or by email at privacy@acma.gov.au.

List of Applied Standards

## List of Applied Standards

## Demonstration of Compliance to Radiocommunications Act 1992 (EMC Requirements)

EN 55032:2012 + AC:2013, Class B Electromagnetic compatibility of multimedia equipment -Emission requirements

EN 61000-3-2:2014 – Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions

EN 61000-3-3:2013 – Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq$  16A per phase and not subject to conditional connection

**Product Description** 

## Product Description

## • Sales Literature

The Crestron® AMP-X300 is a high performance, space saving, energy efficient, professional grade amplifier solution that's totally configurable, yet simple to use.

The AMP-X300 is a 4-channel amplifier (at 75 W per channel) which can also be configured for 2-channel bridged operation (at 150 W per channel), with a choice of "LoZ" outputs to drive 4- or 8-Ohm speakers, or "Hi-Z" outputs to drive a distributed speaker system (70 V or 100 V). Balanced and unbalanced inputs are provided for connection to two stereo or four mono source(s) via detachable terminal blocks or RCA connectors.

The AMP-X300 was designed in partnership with ICEpower® to create a custom, flexible, high performance amplifier topology that is suitable for a variety of audio applications.

## • Photographs

Figure 1a: Overall unit (front view):

			0110	0140	044
PWR HI-Z	FAULT	CH2	CH3	CH4	
	SIGNAL				

Figure 1b: Overall unit (back view):



Figure 2: Marking plate – example:



For more photographs, please refer to Section 5 of this Technical File – Additional Information; Photographs can be found in the CB Test Report: E496941-A6013-CB-1, Enclosures 03-0x

For additional Marking Plate, please refer to Section 5 of this Technical File – Additional Information; Marking Plates can be found in the CB Test Report: E496941-A6013-CB-1, Enclosures 07-09

 Operators and Service Manual
 Quick Start Guide – extract (available also at: www.crestron.com/model/6510866)

### AMP-X300

#### X Series Amplifier

The Crestron\* AMP-X300 is a compact, versatile amplifier that can be configured for use on a flat surface or installed in a 1 RU rack space. The supplied joining plates enable two amplifiers to be ganged together in a single rack space.

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### In the Box

AMP-X300, X Series Amplifier 1

#### Additional Items

- Plate, Joining (2055198) 4
- Screw, 8-32 x 5/16 in., Flat Head, Phillips, Black (2055195) 8 Screw, 6-32 x 3/8 in., Undercut Head, Phillips (2055196) 4
- Foot, Adhesive, Black (2055200) 4
- 2
- Rack Ear Assembly, 1U, Quarter-width (2055197), includes Bracket, Rack Ear, 1U (2055199)
- 2 Connector, Speaker (2055206)
- 4 Connector, Input (2055207)
- 1 Power cord (2055205)



#### AMP-X300

X Series Amplifier



#### Prepare for Installation

The amplifier can be installed in a rack, mounted on a surface, or placed on a surface.

#### **Rack Installation**

Before an amplifier can be installed in a rack, rack ears must be attached.

#### Single Amplifier

Attach the rack ears to the amplifier with the four included  $6-32 \times 3/8$  in. screws.

#### Attach Rack Ear, Single Amp



### **Quick Start**



**Quick Start** 

#### **Ganged Amplifiers**

Two amplifiers can be ganged together while occupying only 1 RU of rack space. When ganged together, the amplifier assembly occupies the entire  $% \lambda =0$ width of the rack.

1. Place amplifiers upside-down and adjacent to each other, on a flat surface.

Position amplifiers together





#### **Quick Start** AMP-X300 X Series Amplifier Audio Inputs Channels 1 & 2 Gain control Channels 1 & 2 Audio Inputs Channels 3 & 4 Ground Gain control Channels 3 & 4 the second 0 BRIDGE/HI-Z USES GAIN 1&3 ONLY + - G + - G CH1 -IN-CH3 GAIN 1 GAIN 2 GAIN 4 GAIN 3 ... 800 ". D 6 BRIDGE/HI-Z- CH2 CH1 1 1 POWER 10 - + - (3) 34 34 3 -34 CH4 CH2 -00 -0 707 CLASS (internet) -01 .... 888 STEREO BRIDGE SUM LoZ MODES + - G - G 100-240V~ 1.2-0.6A 50/60Hz 0 HI-Z- CH4 LoZ Modes 100-240VAC Power mode selection switch (CH1 & CH2) selection switch 1.2A-0.6A 50/60 Hz: (for 4 and 8 ohm speaker loads) From AC power outlet Speaker outputs Speaker mode LoZ Modes selection switch (CH3 & CH4) selection switch (for 4 and 8 ohm speaker loads)



#### AMP-X300

X Series Amplifier



#### Configuration

Each amplifier channel has its own gain control on the rear of the amplifier that can be adjusted to balance the sound between inputs or to accommodate different audio sources.

To configure a channel, a test signal must be sent to the amplifier while a Phillips screwdriver is used to adjust the amplifier's gain control (turn the gain control knob clockwise to increase the gain or counterclockwise to reduce the gain).

WARNING: This amplifier is capable of delivering high power to the loudspeakers. Please use caution and adequate ear protection if listening to content at high volume levels, as continued exposure to high sound pressure levels can cause permanent hearing impairment or loss.

- 1. Set the source's output signal level to maximum.
- 2. Set the amplifier's gain to the lowest setting (full counterclockwise).
- 3. Apply power to the amplifier.
- Increase the amplifier's gain control until the desired volume level is reached in the audio playback zone.

NOTE: If clipping is exhibited in the playback audio, check the gain levels at the amplifier first. If the clipping is not remedied by adjusting the gain at the amplifier, troubleshoot at any other gain stage earlier in the audio chain.

#### LED Operation

The LEDs on the front panel provide the following information:

LED Description

 PWR
 White: The amplifier is operating normally.

 Red: The amplifier has entered Standby (Power Saver) mode.
 FAULT

 Red: There is a fault, clip, or limiting on the indicated channel.
 FAULT

**Quick Start** 

SIGNAL White: An audio signal is present on the indicated channel.



Safety Instructions – extract

#### Crestron

## English

#### Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- · Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tipping over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Disconnect power prior to connecting or disconnecting equipment.
- Do not install in direct sunlight.
- The apparatus must be installed in a way that the power cord can be removed either from the wall outlet or from the device itself in order to disconnect the mains power.
- Prevent foreign objects from entering the device.

#### WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING. OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THE APPARATUS.

#### WARNING:

TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER. THERE ARE NO USER SERVICEABLE PARTS INSIDE. ONLY QUALIFIED SERVICE PERSONNEL SHOULD PERFORM SERVICE.





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric

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shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

#### WARNING:

THIS IS AN APPARATUS WITH CLASS I CONSTRUCTION. IT SHALL BE CONNECTED TO AN ELECTRICAL OUTLET WITH AN EARTHING GROUND TERMINAL.

#### IMPORTANT:

This device can be used with Class 2 output wiring.

For additional user instructions, please refer to Section 5 of this Technical File – Additional Information; User manual and instructions can be found in the CB Test Report: E496941-A6013-CB-1, Enclosure 06-0x

Test Data and Reports

## Test Data and Reports

- EMC Test Report: P19-0165-1 rev. 2,
- Dated: 2019-10-24
- Issued by: EKTOS TRS A/S

Standards:

EN 55032:2012 + AC:2013 Electromagnetic compatibility of multimedia equipment – Emission requirements

EN 55024:2010 + A1:2015 Information technology equipment – Immunity characteristics – Limits and methods of measurement

EN 55035:2017 – Electromagnetic compatibility of multimedia equipment – Immunity requirements

Result (compliance) pages shown below, complete test reports available upon request.

### 1 SUMMARY

### 1.1 Test plan

The test plan is made according to the most severe test specifications from the following standards:

EN 55032:2012+AC:2013

EN 55024:2010+A1:2015 EN 55035:2017

Test method	Name of the test	Test	Result
EN 55032:2012+AC:2013, Class B	Radiated emission	х	PASSED
EN 55032:2012+AC:2013, Class B	Conducted emission	Х	PASSED
EN 61000-4-3:2006+A1+A2	Radio frequency electromagnetic field	Х	PASSED
EN 61000-4-2:2009	Electrostatic discharge	х	PASSED
EN 61000-4-4:2012	Fast transients	х	PASSED
EN 61000-4-5:2014+A1	Surge	х	PASSED
EN 61000-4-6:2014	Radio frequency common mode	х	PASSED
EN 61000-4-8:2010	Power frequency magnetic field	NR <sup>1</sup>	-
EN 61000-4-11:2004+A1	Voltage dips and interruptions	Х	PASSED
EN 61000-3-2:2014	Harmonic current	Х	PASSED
EN 61000-3-3:2013	Voltage fluctuations and flicker	х	PASSED
PASSED         The test specimen complie           FAILED         The test specimen does no           REF         The test is covered by a te           NR         The test is not relevant for           X         The test is performed.	s with the essential requirements in the standard. of comply with the essential requirements in the stan- st in another report and/or on a similar test specimer the test specimen or has been waived by the manuf	dard. 1. acturer.	1

Note 1: The test specimen has no magnetisable parts and is not susceptible to magnetic fields.

## **Additional Information**

## Additional Information

Electrical Safety Test Reports

 CB Test Report: E496941-A6013-CB-1-Original
 CB Test Certificate: DK-91116-UL
 Issued: 2019-12-18

CB Test Report: E496941-A6013-CB-1-Amendment-1 CB Test Certificate: DK-91116-M1-UL Issued: 2020-03-02

CB certificates shown below, complete test reports available upon request.



### DK-91116-UL

# IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB TEST CERTIFICATE Product Audio Amplifier Name and address of the applicant ICEPOWER A/S Vandtarnsvej 62A, 3B Soborg, 2860 Denmark Name and address of the manufacturer ICEPOWER A/S Vandtarnsvej 62A, 3B Soborg, 2860 Denmark Name and address of the factory SVI Public Company Limited

Note: When more than one factory, please report on page 2

Ratings and principal characteristics

100 - 240V~, 1.2 - 0.6A, 50/60 Hz

Bangkadi Muang

Trademark / Brand (if any)

CRESTRON

M1845006 See Page 2

IEC 62368-1:2014



141 - 142 Moo 5 Tiwanon Rd

Pathumthani, 12000 Thailand Additional Information on page 2

Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

Additional information (if necessary may also be reported on page 2)

A sample of the product was tested and found to be in conformity with

As shown in the Test Report Ref. No. which forms part of this Certificate

This CB Test Certificate is issued by the National Certification Body

(UL)

UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Additionally evaluated to EN 62368-1:2014 / A11: 2017; National

Differences specified in the CB Test Report.

E496941-A6013-CB-1 issued on 2019-12-18

Additional Information on page 2

Date: 2019-12-18

Signature:

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Jan-Erik Storgaard



Model Details: M1845006 (SKU: AMP-X300) Ref. Certif. No.

DK-91116-UL

### Additional information (if necessary)



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2019-12-18

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Signature: Jan-Erik Storgaard



### DK-91116-M1-UL

## IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

### **CB TEST CERTIFICATE**

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory Note: When more than one factory, please report on page 2

Ratings and principal characteristics

Trademark / Brand (if any)

Audio Amplifier

ICEPOWER A/S Vandtarnsvej 62A, 3B Soborg, 2860 Denmark

ICEPOWER A/S Vandtarnsvej 62A, 3B Soborg, 2860 Denmark

SVI Public Company Limited 141 - 142 Moo 5 Tiwanon Rd Bangkadi Muang Pathumthani, 12000 Thailand

Additional Information on page 2

100 - 240V~, 1.2 - 0.6A, 50/60 Hz

CRESTRON



Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

Additional information (if necessary may also be reported on page 2)

A sample of the product was tested and found to be in conformity with

As shown in the Test Report Ref. No. which forms part of this Certificate

M1845006 See Page 2

The report was revised to include technical modifications Additional Information on page 2

IEC 62368-1:2014

E496941-A6013-CB-1 issued on 2020-03-02

This CB Test Certificate is issued by the National Certification Body



Signature:

UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

for our Superior

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2020-03-02 Original Issue Date: 2019-12-18





Ref. Certif. No.

### DK-91116-M1-UL

Model Details: M1845006 (SKU: AMP-X300)

Additional Information:

Additionally evaluated to EN 62368-1:2014 / A11: 2017; National Differences specified in the CB Test Report.

The original report was modified to include the following changes/additions:

- Added new main fuse (F100)

### Additional information (if necessary)



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA For full legal entity names see www.ul.com/ncbnames

Date: 2020-03-02 Original Issue Date: 2019-12-18

han buch Supernal Signature:

Jan-Erik Storgaard