

SECTION 27 41 16
INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

Equipment Specified in this section:

AMP-225

AMP-150-70

AMP-150-100

AMP-2100

AMP-2100-70

AMP-2100-100

AMP-1200-70

AMP-1200-100

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SECTION 27 41 16 INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

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PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Modular Audio Amplifiers

PART 2 PRODUCTS

2.1 AUDIO AMPLIFIERS

Specifier Note:

AMPLIFIER TYPES:

AMPLIFIER TYPE 1 – Crestron AMP-225

AMPLIFIER TYPE 2 – Crestron AMP-150-70

AMPLIFIER TYPE 3 – Crestron AMP-150-100

AMPLIFIER TYPE 4 – Crestron AMP-2100

AMPLIFIER TYPE 5 – Crestron AMP-2100-70

AMPLIFIER TYPE 6 – Crestron AMP-2100-100

AMPLIFIER TYPE 7 – Crestron AMP-1200-70

AMPLIFIER TYPE 8 – Crestron AMP-1200-100

- A. Modular Audio Amplifier Series
 - 1. The Audio Amplifier shall be purpose built for professional use
 - 2. The amplifier shall be Energy Star certified
 - 3. Each Modular Amplifier shall be supplied with a complete hardware kit to mount the amp in a EIA compliant equipment rack, surface mounted on a wall or under a table
 - 4. The amplifier shall provide a slide-lock system to join quarter and half rack width modules together to form a 1 RU assembly for mounting in EIA standard enclosures
 - 5. All Modules shall be standard 1RU height, 1.74", 45cm
 - 6. Models shall be selected to service the loudspeaker type and power as required:
 - a. AMPLIFIER TYPE-1, 2x25W low impedance, quarter rack enclosure
 - b. AMPLIFIER TYPE-2, 1x50W high impedance 70V, quarter rack enclosure

- c. AMPLIFIER TYPE-3, 1x50W high impedance 100V, quarter rack enclosure
 - d. AMPLIFIER TYPE-4, 2x100W low impedance, half rack enclosure
 - e. AMPLIFIER TYPE-5, 2x100W high impedance 70V, half rack enclosure
 - f. AMPLIFIER TYPE-6, 2x100W high impedance 100V, half rack enclosure
 - g. AMPLIFIER TYPE-7, 1x200W high impedance 70V, half rack enclosure
 - h. AMPLIFIER TYPE-8, 1x200 high impedance 100V, half rack enclosure
7. All models shall have an input sensitivity of 1.29V, +4dBu balanced for the rated power
 8. All models shall have an input sensitivity of 0.316V, -10dBV unbalanced for the rated power
 9. All models shall include a signal clip limiter

B. Physical

1. The amplifier shall mount:
 - a. Using the supplied slide-lock system to join multiple modules forming a 1RU assembly for EIA rack mounting
 - b. Using the supplied angle brackets for surface attachment to a wall behind a video screen or under a table
 - c. Using the supplied rubber feet as a free-standing device in a credenza or on a shelf
2. Unit depth shall be 10.46", 266mm
3. The convection cooling scheme shall facilitate front to back airflow
4. The recessed front panel attenuator(s) shall control the analog output(s), screwdriver adjustable
 - a. Included magnetic covers shall obscure the attenuator(s) to prevent tampering
5. Modules with one channel output shall accept a two channel input that will be summed to mono
6. Modules with two channel outputs shall accept a two channel input that feeds a single output channel
7. The amplifier shall include an internal Universal Power Supply
 - a. Operational 50-60Hz, 100-240VAC
 - b. Provided with a country specific IEC cable

C. Rear Panel

1. Connectors
 - a. Each model shall provide balanced input(s), +4dBu, using Phoenix style removable blocks
 - b. Each model shall provide unbalanced input(s), -10dBV, using RCA style connectors
 - c. All models shall use a Phoenix style removable block on the output

- d. A chassis ground lug shall be provided for in-rack use
- D. Front Panel
 - 1. The amplifier shall have front panel LED status indicators
 - a. PWR: Bi-color, green operational and amber standby for Energy Star
 - b. Fault: Red indicates over temperature or over current event
 - c. Signal: Bi-color, green input signal and red signal clipping
- E. Agency Listings
 - 1. The Amplifier shall carry the following certifications and compliance
 - a. UL 60065 listed, Commercial Audio Equipment
 - b. FCC Class A listed
 - c. Energy Star Certified
 - d. Compliant with the RoHS directive.
- F. Warranty
 - 1. The product warranty shall be 3 years.

PART 3 NOT USED

END OF SECTION 27 41 16