

# CA-500 / CA-1000 / CA-1050

## Controllable 32W Audio Amplifiers Controllable 4-input Pre-Amp



### Audio Inputs

CA-500 Connectors/Channels	(1) 5-pin 3.81 Terminal Block (CH1) balanced/unbalanced Stereo
CA-1000 / CA-1050 Connectors/Channels	(1) 5-pin 3.81 Terminal Block (CH1) balanced/unbalanced Stereo (2) 3.5mm Stereo Jack TRS (CH2 & CH3) unbalanced Stereo (1) 2-pin 3.81 Terminal Block (CH4) balanced/unbalanced Mono
Impedance	>13k ohms unbalanced, >20k ohms balanced
Nominal levels	+4 dBu (1.23 Vrms) balanced or -10 dBV (316 mVrms) unbalanced
Maximum level	+11dBu (2.75 Vrms) balanced or 2.9 dBV (1.4 Vrms) unbalanced
Input level sensitivity for maximum output	
Amp Gain Setting 36db (max)	-26 dBV (50mVrms) balanced / -32 dBV (25mVrms) unbalanced
Amp Gain Setting 20db (min)	-9 dBV (350mVrms) balanced / -15 dBV (175mVrms) unbalanced

### Audio Output (Speakers)

Number / Signal type	1 stereo or 2 mono ( 2 channels total)
Connectors	5-pin 3.81mm screw down term block
Minimum load Impedance	4 ohms min – 16 ohm max
Amplifier type	Improved 92% Efficient Class D
Continuous power @ 1% THD	16 watts (rms) per channel @ 4 ohms, 8 watts (rms) per channel @ 8 ohms
Damping factor	>50 up to rated power with 4 ohm load
Frequency response	+/-1 dB, 20 Hz to 20 kHz, 1 watt output
THD + Noise	0.1% @ 1 kHz, at nominal level (1 watt, 8 ohm load)
S/N	>84 dB @ 20 Hz to 20 kHz at maximum output (unweighted, with balanced input)
Stereo channel separation	>65 dB @ 1 kHz, >58 dB @ 20 kHz
CMRR	>80 dB
Protection Circuits	Thermal and Short Circuit protected (Yellow fault LED)
Output Limiter	4 settable gain levels (20db, 26db, 32db, 36db)

### Headphone Outputs

Connector	3.5mm Stereo Jack TRS
Max output	-2.0 dBV (0.8Vrms) into 32 Ohms
Frequency response	+/-1 dB, 20 Hz to 20 kHz,
THD + Noise	0.025% @ 1 kHz, at maximum volume
Signal to noise ratio	>85 dB @ 20 Hz to 20 kHz at maximum output (unweighted, with balanced input)
Crosstalk	>65dB, 1kHz, channel-to-channel
Output impedance	75 Ohms
Working headphone impedance	32 to 600 Ohms

### Audio Outputs (Line Out)

Connector	5-pin 3.81mm Terminal Block Header
Max output (unbalanced)	+2.0 dBV (1.26Vrms)
Frequency response	+/-1 dB, 20 Hz to 20 kHz,
THD + Noise	0.025% @ 1 kHz, at maximum volume
Signal to noise ratio	>84 dB @ 20 Hz to 20 kHz at maximum output (unweighted, with balanced input)
Crosstalk	>65dB, 1kHz, channel-to-channel
Output Impedance	150 Ohms

### Remote Control

Control port	RS232, 3-pin 3.81mm screw down terminal block header IR remote input & IR wired
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### General

External Universal Power Supply	100-240 VAC, 50/60 Hz, 1.5A; 12 VDC, 3.3A (nominal), regulated
Power input requirements	12VDC – 15VDC max, up to 3.5A
Power Output	12VDC – 15VDC max, up to 0.5A (Active fuse)
Temperature/humidity	Storage: -40 to 158 °F (-40 to +70 °C) / 10 - 90%, non condensing Operating: -32 to 122 °F (0 to +50 °C) / 10 - 90%, non condensing
Enclosure type	Metal (Al), baked powdered black
Enclosure dimensions	1.2" H x 3.25" W x 5.1" D 3.1 cm H x 8.3 cm W x 13.0 cm D
Product weight	0.5 lbs (0.2 kg)
Shipping weight	3 lbs (2 kg)
Warranty	3 years



### ORDERING INFORMATION

CA-500	32W mini controllable amplifier, 1-input
CA-1000	32W Mini Controllable amplifier, 4-input
CA-1050	4-input controllable pre-amp with line level output