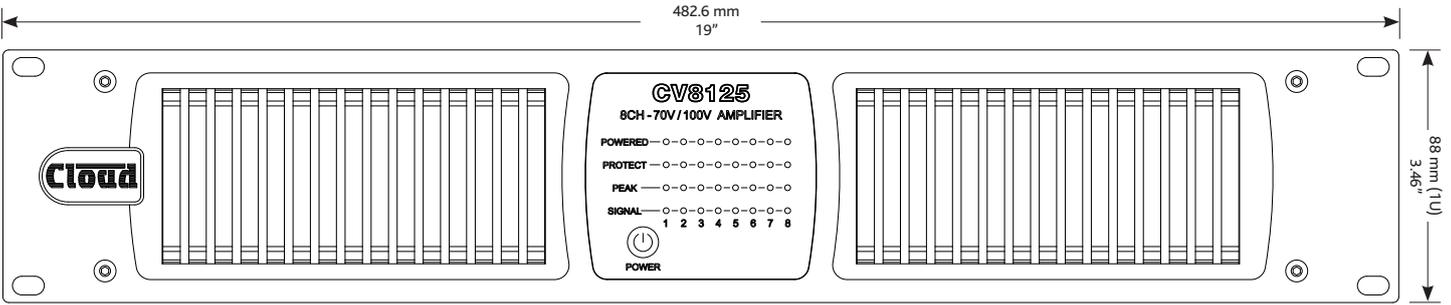
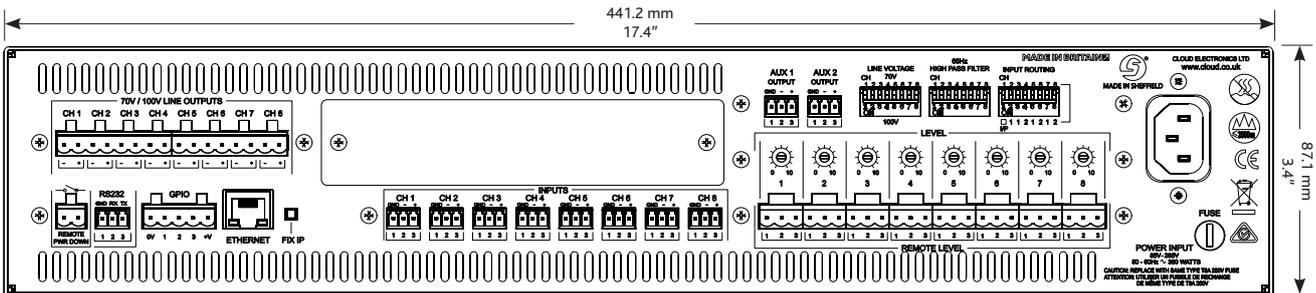


# CLOUD CV SERIES DIGITAL AMPLIFIERS

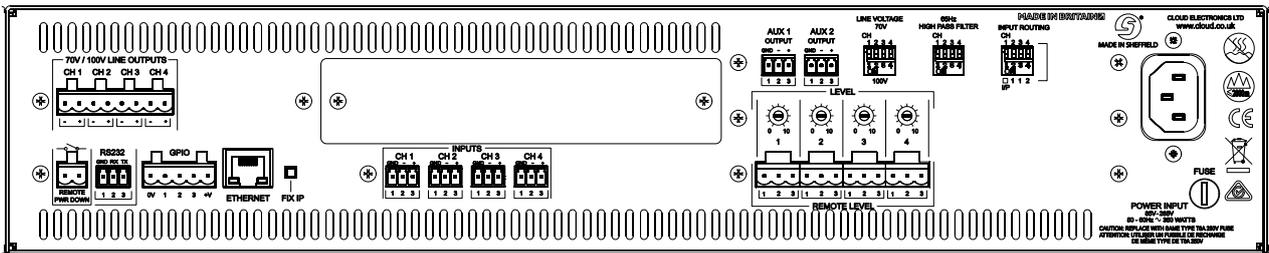
## MODELS: CV2500/CV4250/CV8125



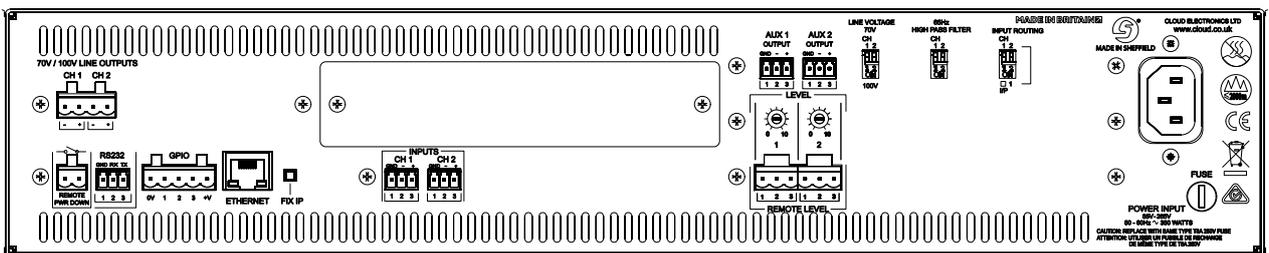
Cloud CV8125 - front panel view  
(CV2500 & CV4250 differ only in number of LEDs)



Cloud CV8125 - rear panel view



Cloud CV4250 - rear panel view



Cloud CV2500 - rear panel view

## General Description

Cloud CV digital amplifiers are versatile multi-channel power amplifiers of advanced design, able to drive 70/100 V-line loudspeaker systems directly. They are ideal for sound reinforcement applications in the retail, leisure, hospitality, commercial or industrial sectors. Large installations using multiple amplifiers will benefit from the amplifiers' network connectivity: each amplifier may be configured individually, controlled and monitored remotely over a standard Ethernet network.

All models include on-board, user-configurable DSP permitting great flexibility of internal architecture, and a wide variety of remote control options including Ethernet, RS-232 and DC: the latter providing compatibility with standard Cloud remote control plates. An important aspect of the design is that "out of the box", the amplifiers emulate earlier Cloud amplifier designs. It is not necessary to either connect a computer nor remove the lid to access internal jumpers to set primary configuration parameters such as

All Cloud products are exclusively designed in the UK.

Every Cloud product is exhaustively tested for electronic performance and sonic perfection in Sheffield, England.

input routing, which may be done using rear panel DIP switches. Where more advanced configuration options are needed, they can be easily accessed through the internal web server and an Ethernet connection to an external device.

**Models:**

The range comprises three models:

| MODEL  | CHANNELS | POWER     |
|--------|----------|-----------|
| CV2500 | 2        | 2 x 500 W |
| CV4250 | 4        | 4 x 250 W |
| CV8125 | 8        | 8 x 125 W |

The amplifiers use an energy-efficient Class D output stage which dispenses with line output transformers, and consequently offer great savings in weight and size over traditional designs of equivalent power ratings. Safety features of the design include output DC detection, overcurrent protection, and thermal monitoring. A switch-on delay provides loudspeaker protection at power-up. All models are built in a 2U steel enclosure, and use variable-speed forced-air cooling.

All models have a total power output capability of 1 kW, this maximum power rating being shared equally between odd-numbered channels in any combination, and even-numbered channels in any combination. Thus the odd-numbered channels can deliver a total of 500 W and similarly, the even-numbered channels can deliver 500 W. This feature allows – for example – one multi-channel amplifier to drive loudspeaker systems in areas of a building differing in size, while optimising the overall power capability.

Particular design attention has been paid to the amplifiers' energy efficiency\*. An automatic power-down (APD) feature puts the amplifier into an ultra-low-current standby mode if no input signal has been detected for 30 minutes; in this mode the power consumption is approx. 2.5 W. The amplifiers also include a remote standby/wake up function, enabling them to be placed into standby mode - and subsequently powered-up again - by a simple external contact closure. Wake-up time is typically 200 ms.

In addition to the "soft" power switch and associated LED, the front panels are fitted with four LEDs for each channel: these confirm signal presence, peak level, activation of the protection circuitry and amplifier power status.

The inputs are electronically balanced, on plug-in multiway connectors. Rear panel controls are provided for individual channel levels; multi-pole DIP switches allow the configuration of input routing options and the selection of per-channel 65 Hz high-pass filters (to help prevent loudspeaker transformer core saturation in 70/100 V-line systems). Further DIP switches allow selection of 70 V-line or 100 V-line working. The rear panel also provides two balanced, line level, auxiliary outputs which may be used to feed low-frequency subs, additional amplifiers, for recording, or other purposes. By default, these carry the "pre-amp out" signals in Channels 1 and 2 respectively, but either may be extensively reconfigured via software (see following pages).

Many more set-up options can be achieved by configuring the amplifier's DSP section, which uses an on-board web server. This may be accessed via the Ethernet interface from any computer or other device with an HTML5/CSS3-compatible browser application. DSP functions include input routing, level, limiting, 7-band Room EQ, hi-pass filtering, up to 1.5 s of delay and 5-band speaker optimisation EQ. Total flexibility of input routing permits an amplifier to be easily configured for multi-channel or parallel channel operation, biamping with full control of crossover parameters, or derivation of a separate channel for sub-bass use (model dependent). Additionally, it is also possible to redefine the sources for the auxiliary outputs, which also include Room and Speaker EQ sections, crossover filtering and level controls. Users can determine which amplifier functions are accessible on the hardware controls and which are only available via the web browser interface, and there is also a password protected, multi-user security system to define the accessibility to the various unit functions for different users.

In addition to Ethernet remote control via the web server pages, the amplifiers are compatible with standard Cloud RL Series remote level control plates: each channel has a dedicated remote control connector for this purpose. A greater degree of control is possible via the RS-232C serial port; this allows the amplifier's levels, channel mutes and power-down to be readily controlled by most third-party control systems (e.g., Crestron, AMX, etc.). Serial codes may also be transmitted via Ethernet. A 3-way GPIO port is also provided, which may be used as an external master mute (equivalent to the Music Mute control input on most other Cloud products), or for fault condition signalisation.

An optional web monitor card, the WM-n is available for all models (where 'n' = the number of channels supported); this replaces the standard speaker output card and performs scheduled, offline impedance tests using test tones.

Internal temperatures, amplifier power status and results of impedance tests (when the optional WM-n card is fitted) will be reported via the web interface and SNMP.

\*ENERGY STAR certification.

## Key Features

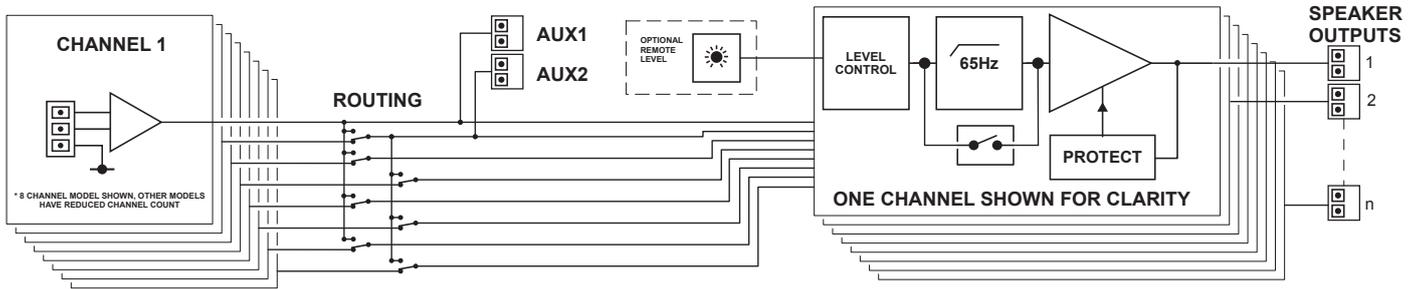
### Amplifier:

- Advanced design of 2, 4 and 8-channel Class D power amplifiers
- Standard “out-of-the-box” Cloud amplifier functionality: requires no computer configuration or internal access for basic operation
- Transformerless output stage drives 70/100 V-line systems directly
- Nominal power ratings: 2 x 500 W (CV2500), 4 x 250 W (CV4250), and 8 x 125 W (CV8125)
- Thermal protection, overcurrent limiting and DC offset protection
- Switch-on delay for speaker protection during power-up
- On 4 and 8 channel models, power sharing allows odd and even channel groups to deliver a maximum of 500 W each
- Per-channel, front panel LEDs for signal presence, peak level, protection activity and power status
- Balanced line level inputs
- Per-channel output level controls
- Rear panel input routing switches configure amplifier for manual selection of multichannel, stereo or mono operation
- Rear panel switches select 70 V-line or 100 V-line output levels
- Per-channel high-pass filter (65 Hz default frequency: adjustable in software) to protect against transformer saturation in 70/100 V-line systems
- Balanced, line level auxiliary outputs with full channel functionality, configurable and controllable via software
- Independent Automatic Power Down on odd and even channel groups; minimises power consumption in absence of an input signal
- <3 W power consumption with all channels quiescent
- RS-232C serial port for remote control of all amplifier functions, including DSP configuration
- Compatible with standard Cloud RL Series remote level control plates (per-channel)
- Remote Power Down control input
- 3-way GPIO port for master mute function or fault reporting
- Variable speed forced-air cooling
- 2U 19” rackmounting units

### DSP functions:

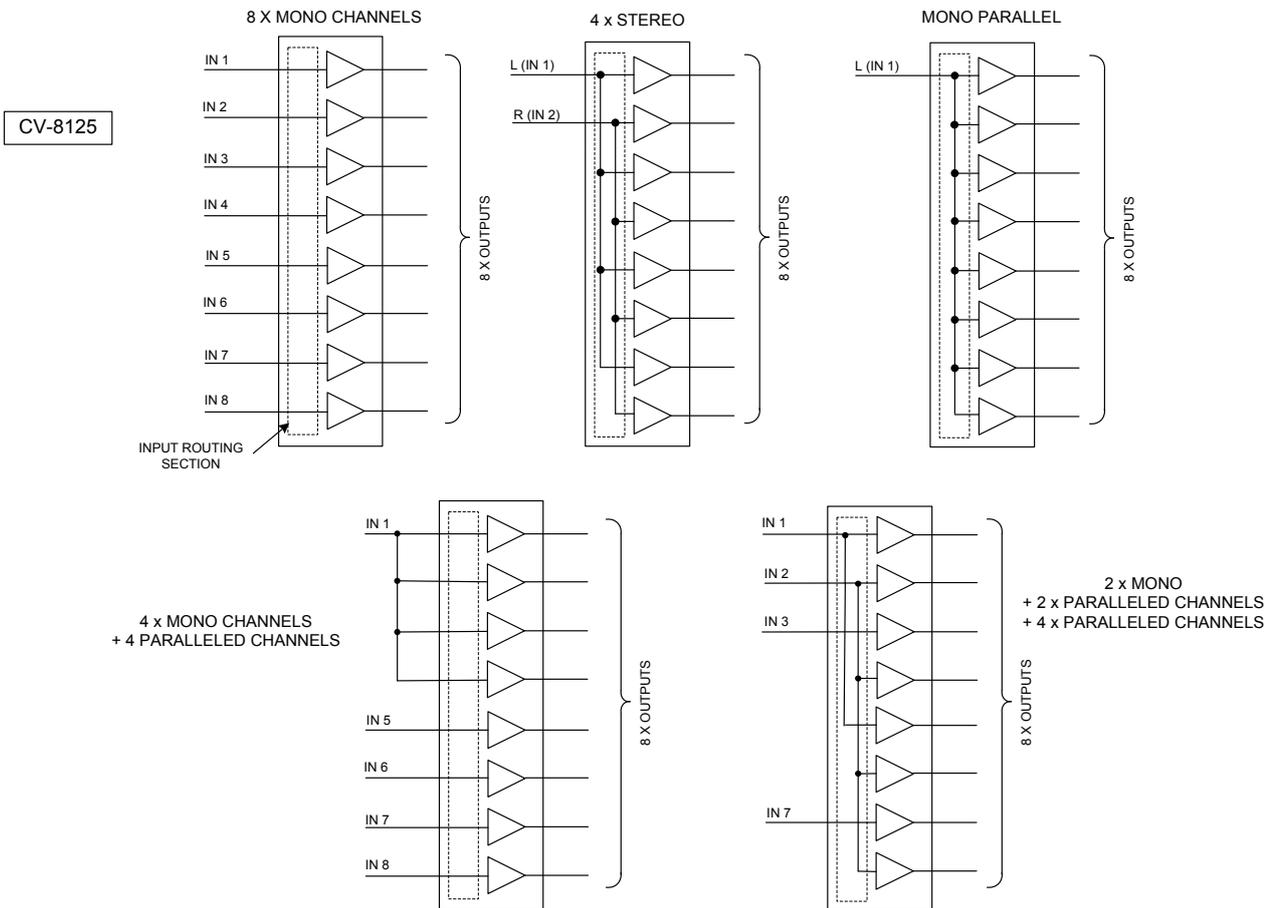
- On-board, per-channel DSP section providing extensive routing, filtering, EQ and limiting for all channels including the auxiliary outputs
- 1.5 s delay pool, freely assignable across all channels and aux outputs
- Simple DSP configuration via on-board web server; any device with a compatible web browser and an Ethernet connection can be used to perform setup
- Built-in DSP crossover configurations allow amplifiers to be easily used with 2-way speakers
- Crossover configurations allow derived LF sub output
- DSP-implemented 5-band parametric speaker EQ section
- Optional EQ presets for OEM speakers (*under development*)
- Password-protected multi-user security system
- Optional web monitor card performs load impedance tests and reports out-of-tolerance results via a web interface or SNMP

## Block Diagram



## Input Routing

The input routing switches permit various permutations of mono, stereo and multi-channel operation without any external parallel wiring. Some possibilities are shown below (CV8125 shown as example):



Although the routing options available using the rear panel switches are likely to suit most applications, even greater flexibility of routing is available using the web browser pages, which allow any amplifier channel to be sourced from any physical input (or none) without restriction.

## Software configuration

All models can be easily configured for specific amplification tasks using the on-board web server via a computer (or any device with a compatible web browser) connected to the rear panel Ethernet port.

Some examples of web browser control pages are shown below:

### Audio: Channel 1

**Mono**

**Input Routing**

Rear Panel  No

Input Type

Input Source

Mono Sum  No

**Room EQ**

**Speaker EQ**

**Output**

**Output Level**

Rear-panel  No

Level

Mute  Off

**Line voltage**

Rear-panel  No

Voltage

**Limiters**

Audio channel configuration allows expanded input routing options, stereo-to-mono summing, room and loudspeaker EQ adjustment, limiting and output level control.

The EQ sections have "basic" (2-band) and "advanced" (7-band fully parametric) modes.

**Room EQ**

Enabled  Yes

Advanced mode  Off

Bass

Treble

**Room EQ**

Enabled  Yes

Advanced mode  On

Band

Freq

Gain

Q

**Speaker EQ**

**High Pass Filter**

Rear-panel  No

Enabled  Yes

Cutoff

Polarity  +

EQ Enabled  Yes

Advanced mode  Off

Manufacturer

Model

The two auxiliary outputs can be fully configured: source, level, EQ, filtering, etc., are all available.

### Audio: Auxiliary 1

**Auxiliary Output**

**Input Routing**

Slave  Yes

Master ◀ Channel 1 ▶

**Room EQ**

**Filter**

Filter Type ◀ Low Pass ▶

Slope ◀ Linkwitz-Riley 24dB ▶

Frequency ◀ 200 ▶  
Frequency

**Speaker EQ**

**Output**

**Limiter**

Enabled  On

Threshold ◀ 0 ▶  
dB

### User 1

**Access Control**

**User**

**Channels**

**Channel 1**

Level  No

Source  No

**Channel 2**

Level  No

Source  No

**Channel 3**

Level  No

Source  No

**Channel 4**

Level  No

Source  No

Up to 10 different users may be given unique passwords, allowing them control of level and/or source of certain channels.

A total of 1482 ms of delay can be freely shared between the main amplifier channels and the auxiliary outputs. Delay can be assigned in terms of meters and feet as well as time.

### Delay Configuration

▼ Delay Allocation 750 of 1482 ms

Units

|             |        |
|-------------|--------|
| Channel 1   | 100 ms |
| Channel 2   | 150 ms |
| Channel 3   | 250 ms |
| Channel 4   | 250 ms |
| Channel 5   | 0 ms   |
| Channel 6   | 0 ms   |
| Channel 7   | 0 ms   |
| Channel 8   | 0 ms   |
| Auxiliary 1 | 0 ms   |
| Auxiliary 2 | 0 ms   |

Additionally, with the optional WM monitor card, each channel can have its test signal frequency defined, together with load impedance and test tolerance. Impedance tests may be scheduled to run at user-selectable intervals and at specific times of day. Amplifier power-on/power-off times and over-temperature are also recorded; an event log is maintained for record-keeping purposes.

### Monitoring

▼ Status

|             | 1                                   | 2                                   | 3                                   | 4                                   | 5                                   | 6                                   | 7                                   | 8                                   |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Powered     | <input type="checkbox"/>            |
| Protect     | <input type="checkbox"/>            |
| Peak        | <input type="checkbox"/>            |
| Signal      | <input type="checkbox"/>            |
| Temperature | <input checked="" type="checkbox"/> |

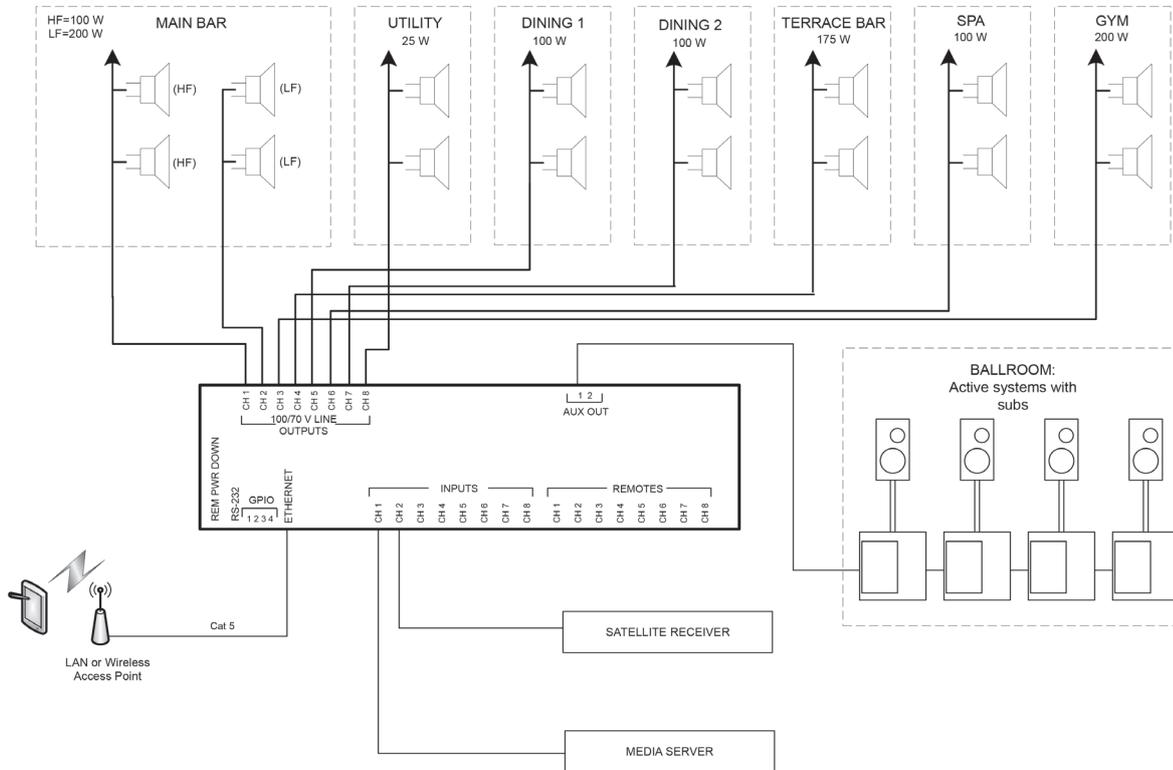
> Rear Panel Controls

▼ Temperature

|             |                                                                                                                                                                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PSU 1       | 25 °C                                                                                                                                                                                                                                                                   |
| PSU 2       | 25 °C                                                                                                                                                                                                                                                                   |
| Channel     | <input type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="3"/> <input type="button" value="4"/> <input type="button" value="5"/> <input type="button" value="6"/> <input type="button" value="7"/> <input type="button" value="8"/> |
| Temperature | --- °C                                                                                                                                                                                                                                                                  |

The amplifiers have built-in fault monitoring and logging facilities.

## Application Example



The example above shows how the eight channels of a CV8125 amplifier may be used to provide audio to different areas of a hotel. All loudspeakers are 70/100 V-line models and the system may be extended to additional speakers in each area as required, provided the total 500 W power capacity of the odd/even channel groups is not exceeded.

The Main Bar area is shown with a two-way speaker system: Channels 1 and 2 are configured as a 2-way crossover, with filter characteristics set according to the speaker manufacturers' specifications.

The other areas are arranged to take advantage of the amplifier's odd/even channel maximum power capacity.

A Wireless Access Point is connected to the Ethernet port, allowing control of the entire system to be achieved from a hand-held device anywhere in the vicinity. Source selection and level control for each zone can be adjusted using the internal web pages on any standard browser. Only two external audio sources are shown for clarity, but up to eight may be connected: the browser pages permit any source to be assigned to any of the eight channels.

One of the auxiliary outputs is shown connected to a set of active 2-way speaker systems in the Ballroom; because this output is balanced, a long cable run may be used without fear of signal loss or interference.

## Technical Specifications

| Performance                     | All Models                                                                                                                               |                               |                               |                               |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Output Power                    | Total output power 1 kW, all channels <sup>1</sup>                                                                                       |                               |                               |                               |
| Output Voltage                  | 70 V or 100 V (rms)                                                                                                                      |                               |                               |                               |
| Frequency Response              | 20 Hz to 20 kHz, +/-0.5 dB                                                                                                               |                               |                               |                               |
| High Pass Filter                | -3 dB @ 65 Hz via rear panel switches<br>-3 dB @ 20 Hz to 200 Hz via DSP configuration                                                   |                               |                               |                               |
| Distortion                      | 0.03%THD @1 kHz, 1 dB below rated output                                                                                                 |                               |                               |                               |
| Noise                           | -94 dB, 22 Hz to 22 kHz                                                                                                                  |                               |                               |                               |
| Crosstalk                       | < -90 dB @1 kHz, -82 dB @10 kHz adjacent channels<br><-107 dB @1 kHz, -93 dB @10 kHz non-adjacent channels<br>All tested with 125 W load |                               |                               |                               |
| Inputs                          |                                                                                                                                          |                               |                               |                               |
| Connectors                      | 3-pole 3.5 mm-pitch plug-in screw-terminal connectors                                                                                    |                               |                               |                               |
| Sensitivity                     | 0 dBu (0.775 V <sub>rms</sub> )                                                                                                          |                               |                               |                               |
| Input Impedance                 | 10 kohms (balanced); 5 kohms (unbalanced)                                                                                                |                               |                               |                               |
| General                         |                                                                                                                                          |                               |                               |                               |
| Output connectors               | 2-pole 5 mm-pitch plug-in screw-terminal connectors                                                                                      |                               |                               |                               |
| Remote level control connectors | 3-pole 5 mm-pitch plug-in screw-terminal connectors<br>Compatible with Cloud RL Series remote control plates                             |                               |                               |                               |
| Power input                     | 85 to 264 V AC, 40 to 60 Hz                                                                                                              |                               |                               |                               |
| Mains protection                | Class 3T 250 V fuse, 20 x 5 mm, rating T8A                                                                                               |                               |                               |                               |
| Normal Operating Temperature    | 0 °C to 35 °C (Note performance and specifications cannot be guaranteed outside this range)                                              |                               |                               |                               |
| Power Consumption               |                                                                                                                                          | CV2500                        | CV4250                        | CV8125                        |
|                                 | Standby <sup>2</sup>                                                                                                                     | 2.34 W, 12.4 VA               | 2.43 W, 24.0 VA               | 2.5 W, 24.4 VA                |
|                                 | Idle <sup>3</sup>                                                                                                                        | 27.1 W, 46.7 VA               | 38.9 W, 60.0 VA               | 59.7 W, 89.3 VA               |
|                                 | 1/8th power <sup>4</sup>                                                                                                                 | 164.2 W, 201.3 VA             | 187.4 W, 227.2 VA             | 207.0 W, 248.8 VA             |
| Heat Loss                       | 1/3rd power <sup>5</sup>                                                                                                                 | 380.7 W, 421.1 VA             | 330.1 W, 368.8 VA             | 352.6 W, 387.5 VA             |
|                                 | Standby <sup>2</sup>                                                                                                                     | 8.4 KJ/hr<br>(8.0 BTU/hr)     | 8.7 KJ/hr<br>(8.3 BTU/hr)     | 9.1 KJ/hr<br>(8.7 BTU/hr)     |
|                                 | Idle <sup>3</sup>                                                                                                                        | 97.3 KJ/hr<br>(92.5 BTU/hr)   | 140.1 KJ/hr<br>(132.9 BTU/hr) | 215.0 KJ/hr<br>(203.9 BTU/hr) |
|                                 | 1/8th power <sup>4</sup>                                                                                                                 | 179 KJ/hr<br>(169.7 BTU/hr)   | 217.9 KJ/hr<br>(206.7 BTU/hr) | 278.7 KJ/hr<br>(264.3 BTU/hr) |
| 1/3rd power <sup>5</sup>        | 293.3 KJ/hr<br>(278.7 BTU/hr)                                                                                                            | 263.5 KJ/hr<br>(249.9 BTU/hr) | 334.4 KJ/hr<br>(317.1 BTU/hr) |                               |

## Technical Specifications (continued)

| General (continued) |                           |                                                                   |                                                          |                        |  |
|---------------------|---------------------------|-------------------------------------------------------------------|----------------------------------------------------------|------------------------|--|
|                     | Amplifier Protection      | Overcurrent<br>DC<br>Thermal monitoring<br>Switch-on delay        |                                                          |                        |  |
|                     | Status Indicators         | Power applied, Protection active, Signal peak, and Signal present |                                                          |                        |  |
|                     | Cooling                   | Variable speed fan                                                |                                                          |                        |  |
|                     | Dimensions<br>(W x H x D) | Net                                                               | 482.6 mm x 88 mm x 381.8 mm (19 in x 3.46 in x 15.03 in) |                        |  |
|                     |                           | Shipping                                                          | 606 mm x 164 mm x 558 mm (23.9 in x 6.5 in x 22 in)      |                        |  |
| Weight              |                           | CV2500                                                            | CV4250                                                   | CV8125                 |  |
|                     | Net                       | 6.86 kg<br>(15.37 lb)                                             | 7.26 kg<br>(16.26 lb)                                    | 8.05 kg<br>(18.03 lb)  |  |
|                     | Shipping                  | 8.86 kg<br>(19.85 lb)                                             | 9.26 kg<br>(20.74 lb)                                    | 10.05 kg<br>(22.51 lb) |  |

1. Odd- and even-numbered channel groups can deliver up to 500 W simultaneously, but in models with more than two channels, the available power is reduced proportionately when any channel is delivering more than its nominal rating.

Notes re Power Consumption and Heat Loss measurements: All measurements at 230 VAC 50 Hz power input

2. Standby: amplifier in standby state
3. Idle: amplifier not in standby state, but no audio output
4. 1/8th Power: constant sound level at 1/8 of the rated output power (audio mainly clean, only occasional clipping)
5. 1/3rd Power: constant sound level at 1/3 of the rated output power (audio beginning to become compressed, limited or heavily clipped)

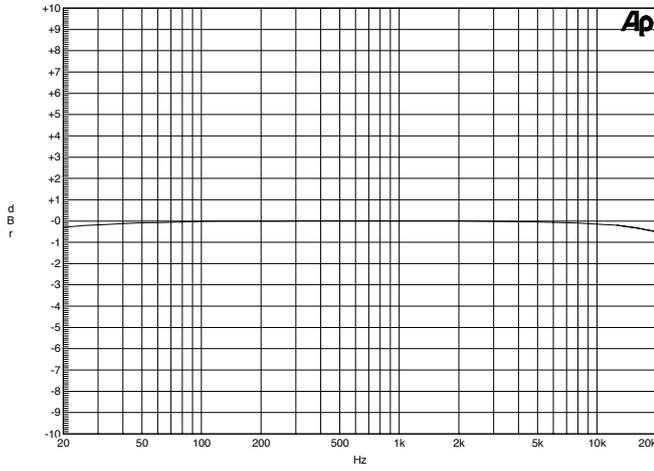
Energy Star certificate web link: <http://www.ul.com/customer-resources/ul-energy-efficient-product-database/>  
UL Energy Efficient Product Database.



## Performance Graphs

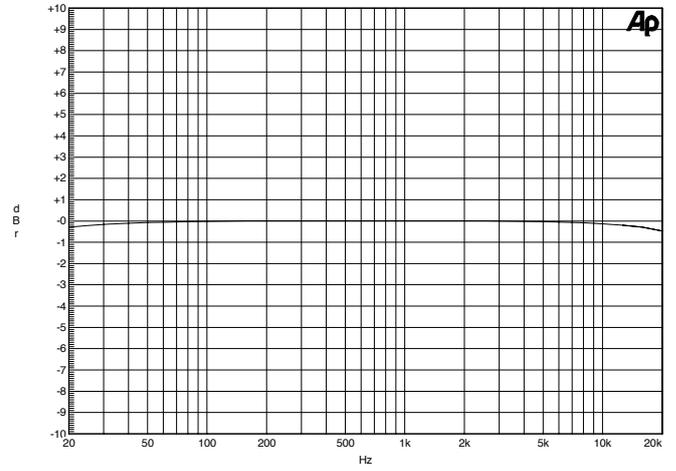
### Frequency Response

Frequency Response, Ch1 into 80 Ohms



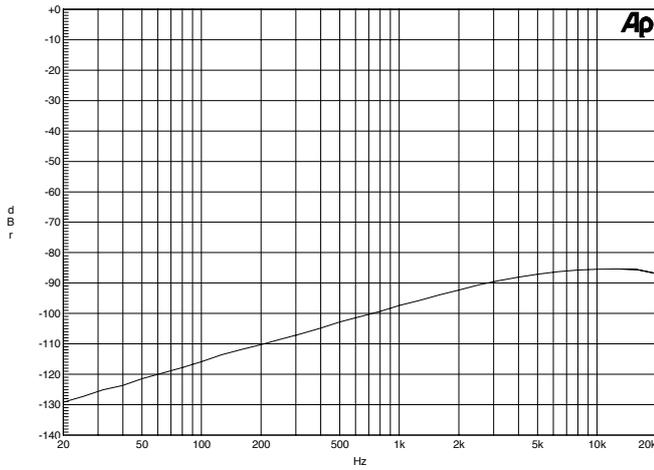
### Open Circuit Frequency Response

Frequency Response, Ch1 No Load



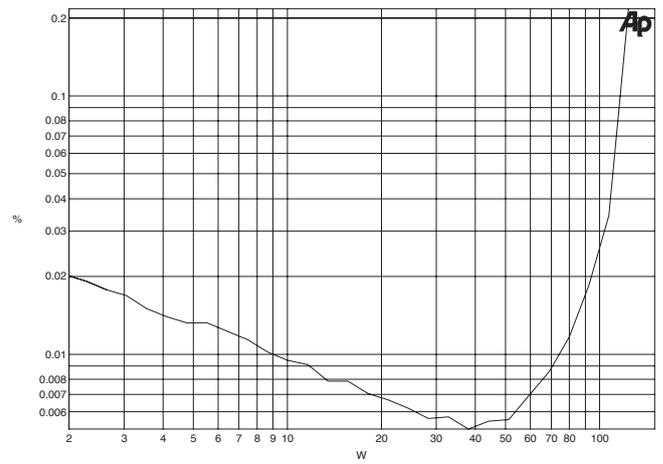
### Crosstalk Ch1 to Ch2

Crosstalk Performance, Ch1 to Ch2, Ch1 @100V O/P into 80 Ohms



### THD+N

THD+N % VS Output Power into 80 Ohms



## Architect's and Engineer's Specification

The power amplifiers shall be available in two channel, four channel and eight channel versions. The output stage shall be a transformerless constant voltage type suitable for driving 70 V-line or 100 V-line loudspeaker systems. Each amplifier shall have two groups of channels with a total of 500 watts available from each group: the even numbered channels shall form one group, the odd channels a second group.

The amplifiers will include an automatic power-down (APD) feature which will shut down either group of channels that has not received an input signal for thirty minutes.

The amplifiers' front panels shall incorporate a "soft" AC power switch, an LED indicating POWER ON, and LEDs indicating Signal Present, Peak Level, Protect status and Power status for each channel. The Signal Present LEDs shall illuminate when the output level is 30 dB below the rated output. The Peak LEDs shall illuminate at the onset of signal clipping. The Protect LEDs shall indicate activation of the channel protection circuitry. The Power status LEDs shall indicate that the channel has not been powered down by the APD system.

The amplifiers shall be provided with a number of inputs equal to the number of channels. The input connectors shall be of removable, screw-terminal type. The inputs shall be electronically balanced and capable of operating with both balanced and unbalanced sources. The input impedance shall be 10 kohms (balanced). It shall be possible to configure the amplifiers to operate in the following configurations as a minimum: all channels independent, one input feeding all channels or two inputs feeding the amplifier channels in pairs for stereo operation. It shall be possible to enable a high-pass 3rd order filter with a turnover frequency of 65 Hz independently in each amplifier channel. The amplifiers shall be provided with externally accessible switches for setting each channel to operate with 70 V-line or 100 V-line systems independently. It shall be possible to select all the configurations and settings described in this paragraph without accessing the interior of the amplifier enclosure, and without connecting an external device.

Output level adjustment will be provided for each amplifier channel via a rear panel control: at the minimum setting, the channel shall be muted. Each channel shall deliver its rated power from an input signal of 0 dBu with the channel level control set at maximum.

Output mute protection on power-up and thermal protection shall be provided. The amplifiers will also be protected against short circuits at the output, and excessive combination of output voltage and current. The amplifiers' outputs shall be on removable, screw terminal connectors.

The amplifiers shall include a digital signal processing (DSP) section: this shall be controllable through a series of web pages stored internally which shall be accessible on a web browser application on an external computer or similar device connected to a standard Ethernet port.

The DSP section shall provide the following facilities as a minimum: i) configuration of amplifier channels for mono, stereo, mono or stereo bi-amping with or without a separate LF sub output; the availability of these configurations shall be restricted according to the number of amplifier channels; ii) an input matrix section permitting any input to feed any amplifier channel without restriction, iii) equalisation for each channel: this shall have a minimum of seven bands and be of the fully parametric type; the highest and lowest frequency bands

shall be selectable to bell or shelf modes; iv) a further equalisation section for each channel capable of optimising the channel for use with a selection of popular loudspeakers specific to commercial sound applications by both the selection of a loudspeaker-specific preset, and by the use of an equaliser of the parametric type with a minimum of five frequency bands; v) a limiter section in each channel, with threshold adjustment; vi) control of output level, lowpass filtering and polarity of each auxiliary output.

There shall be at least two balanced line level auxiliary outputs on removable, screw-terminal connectors. It shall be possible for the source of each auxiliary output to be selectable from any of the amplifier's main channels, and each output shall include the same equalisation and limiter capabilities as the amplifier's main channels. Each auxiliary output shall also include a filter section to permit the configuration of loudspeaker crossover filters, with choice of filter type and slope.

It shall be possible to apply a time delay to any or all channels and/or auxiliary outputs. The total delay available shall not be less than 1.482 seconds, and it shall be possible to freely share this maximum delay between all channels and/or auxiliary outputs. It shall be possible to assign the delay in units of either time or distance (both metric and imperial).

The amplifier shall maintain an internal log of amplifier power-up and power-down times, occurrences of over-temperature, plus impedance test results if the load monitoring option is fitted.

Load impedance monitoring shall be available as an option on all versions. It shall be possible to specify test frequency for each channel and also the dates and times of load testing.

An optional remote control shall be available for any or all amplifier channels, to allow adjustment of channel level. The remote control connector shall be of removable, screw-terminal type. The amplifiers shall be equipped with a bi-directional serial control port to RS-232C standards: all amplifier and DSP functions shall be controllable via this port.

The amplifier shall be built in a steel chassis suitable for mounting in a standard 19" equipment rack, and occupy two rack spaces. Variable speed forced-air cooling shall be employed; the fan shall not operate unless the internal temperature dictates it.

The amplifiers shall operate on all AC supply voltages between 85V and 264V. They shall be compliant with the relevant provisions of EnergyStar® Eligibility Criteria Ver. 3.0 for Audio-Video Products. In the absence of an input signal, they shall automatically enter "standby" mode wherein the DC power consumption shall be less than 3 W. It shall also be possible to control the power status of the amplifiers via a dedicated control input with an external contact closure.

The power amplifiers shall be the Cloud CV2500 (two channels), CV4250 (four channels), and CV8125 (eight channels). The load impedance monitoring option shall be the Cloud WM-2 (two channels), WM-4 (four channels) and WM-8 (eight channels). The remote level control plate shall be the Cloud RL-1 Series.



[www.cloud.co.uk](http://www.cloud.co.uk)



[www.cloudusa.pro](http://www.cloudusa.pro)