

# CPS4.10 1000 W/CH 4-CH Amplifier

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**Electro-Voice**

- 4 x 1000 W
- High Efficient Class-D Design
- Optimized for permanent installation
- Optional Remote Control Module RCM-810



The Electro-Voice CPS4.10 amplifier offers four independent Class-D Variable Load Drive (VLD) amplifier blocks, each one capable of delivering up to 1000 Watts into Low-Z or High-Z loads. Per default, each channel can be configured individually for max. power output into either 2  $\Omega$ , 4  $\Omega$ , 70V- or 100V-networks without involvement of any output transformers. Being designed for professional audio installation market, special care was taken for long term cost of ownership parameters: In addition to

remarkably low current consumption and heat dissipation, the CPS4.10 provides remote standby switching with just 5 Watts consumption in standby mode. An optional remote control module RCM-810 provides control and supervision features via IRIS-Net, including monitoring of amplifier status and real time load supervision. In addition, via RCM-810 the Variable Load Drive characteristics can be set for max. power output into any load between 2  $\Omega$  and 10  $\Omega$ , in steps of 0.1  $\Omega$ .

## Technical specifications

|                                                                  | Low impedance mode                                                                                                                                                                           |                   |                      | High impedance mode |                    |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|---------------------|--------------------|
|                                                                  | 2 $\Omega$                                                                                                                                                                                   | 4 $\Omega$        | 8 $\Omega$           | 70 V/10 $\Omega$    | 100 V/20 $\Omega$  |
| Maximum midband output power, THD = 1%, 1 kHz, 4 channels driven | 1000 W                                                                                                                                                                                       | 1000 W            | 500 W<br>VLD: 1000 W | 1000 W              | 1000 W             |
| Rated output power, THD < 0.3%, 20-20 000 Hz, 4 channels driven  | 900 W                                                                                                                                                                                        | 900 W             | 450 W<br>VLD: 900 W  | 900 W               | 900 W              |
| Maximum bridged output power, THD = 1%, 1 kHz                    | -                                                                                                                                                                                            | 2000 W            | 2000 W               | 2000 W/10 $\Omega$  | 2000 W/20 $\Omega$ |
| Maximum RMS voltage swing, THD = 1%, 1 kHz                       | 45 V                                                                                                                                                                                         | 63 V              | 63 V<br>VLD: 89 V    | 70 V                | 100 V              |
| Power Bandwidth, THD = 1%, ref. 1 kHz, half power at rated load  | 10-25000 Hz                                                                                                                                                                                  |                   |                      | 50-25000 Hz         |                    |
| Voltage gain, ref. 1 kHz                                         | 32 dB                                                                                                                                                                                        | 32 dB             | 32 dB                | 33 dB               | 36 dB              |
| Input Sensitivity, rated power, 1 kHz                            | 1.1 V (+3.0 dBu)                                                                                                                                                                             | 1.55 V (+6.0 dBu) | 1.55 V (+6.0 dBu)    | 1.55 V (+6.0 dBu)   | 1.55 V (+6.0 dBu)  |
| THD at rated output power, MBW = 80 kHz, 1 kHz                   | < 0.05%                                                                                                                                                                                      |                   |                      |                     |                    |
| IMD-SMPTE, 60 Hz, 7 kHz                                          | < 0.05%                                                                                                                                                                                      |                   |                      |                     |                    |
| DIM30, 3.15 kHz, 15 kHz                                          | < 0.02%                                                                                                                                                                                      |                   |                      |                     |                    |
| Maximum input level                                              | +22 dBu (9.76 V <sub>rms</sub> )                                                                                                                                                             |                   |                      |                     |                    |
| Crosstalk, ref. 1 kHz, at rated output power                     | < -80 dB                                                                                                                                                                                     |                   |                      |                     |                    |
| Frequency response, ref. 1 kHz, 8 $\Omega$ load                  | 15-30000 Hz ( $\pm 1$ dB)                                                                                                                                                                    |                   |                      |                     |                    |
| Input impedance, active balanced                                 | 20 k $\Omega$                                                                                                                                                                                |                   |                      |                     |                    |
| Damping factor, 1 kHz, 8 $\Omega$                                | > 240                                                                                                                                                                                        |                   |                      |                     |                    |
| Slew rate                                                        | 28 V/ $\mu$ s                                                                                                                                                                                |                   |                      |                     |                    |
| Signal-to-noise ratio (A-weighted)                               | 101 dB                                                                                                                                                                                       | 103 dB            | 103 dB               | 104 dB              | 106 dB             |
| Output noise, A-weighted                                         | < -66 dBu                                                                                                                                                                                    | < -65 dBu         | < -65 dBu            | < -65 dBu           | < -64 dBu          |
| Output stage topology                                            | Class D                                                                                                                                                                                      |                   |                      |                     |                    |
| Power requirements                                               | 220-240 V, 50-60 Hz or 120 V, 50-60 Hz or 100 V, 50-60 Hz                                                                                                                                    |                   |                      |                     |                    |
| In-rush current                                                  | 27 A                                                                                                                                                                                         |                   |                      |                     |                    |
| In-rush current, after five-second power cycle                   | 14 A                                                                                                                                                                                         |                   |                      |                     |                    |
| Power consumption, 1/8 maximum output power                      | 840 W                                                                                                                                                                                        |                   |                      |                     |                    |
| Protection                                                       | Audio Limiters, High Temperature, DC, HF, Short Circuit, Peak Current Limiters, Inrush Current Limiters, Turn-on Delay, Mains Circuit Breaker Protection, Mains Over/Undervoltage Protection |                   |                      |                     |                    |
| Electromagnetical environment                                    | E1, E2, E3                                                                                                                                                                                   |                   |                      |                     |                    |
| Cooling                                                          | Front-to-Rear, temperature controlled fans                                                                                                                                                   |                   |                      |                     |                    |
| Operating temperature                                            | +5° to +40° C                                                                                                                                                                                |                   |                      |                     |                    |
| Safety class                                                     | I                                                                                                                                                                                            |                   |                      |                     |                    |
| Color                                                            | Black                                                                                                                                                                                        |                   |                      |                     |                    |

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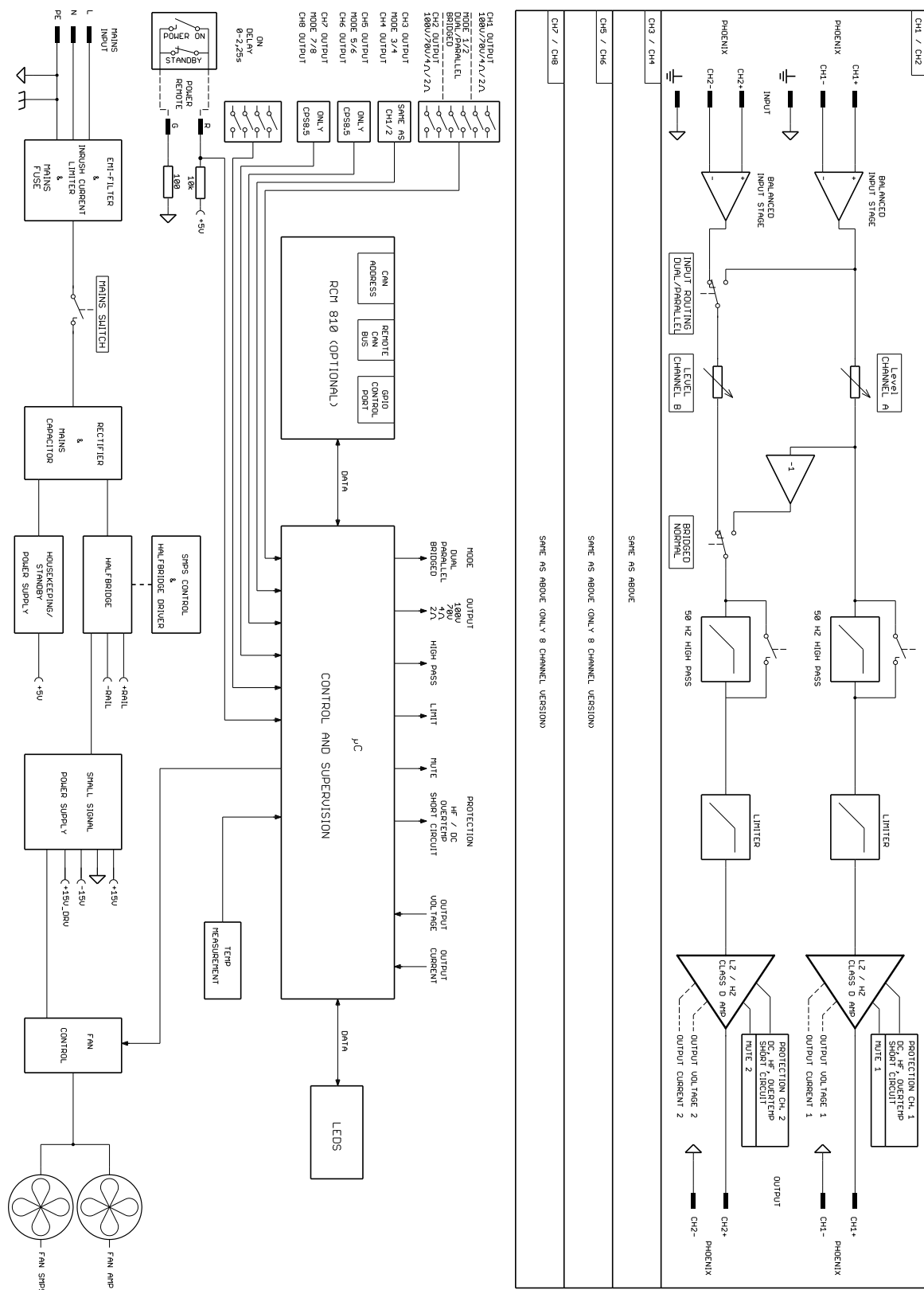
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| Product dimensions (Height x Width x Depth) | 88.1 mm x 483 mm x 420.8 mm |
|---------------------------------------------|-----------------------------|

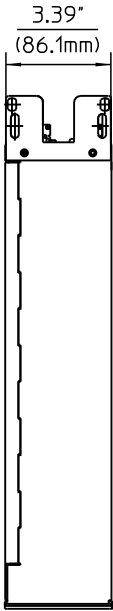
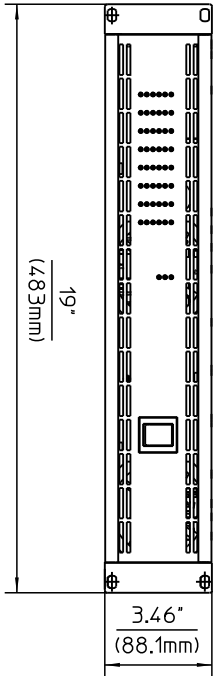
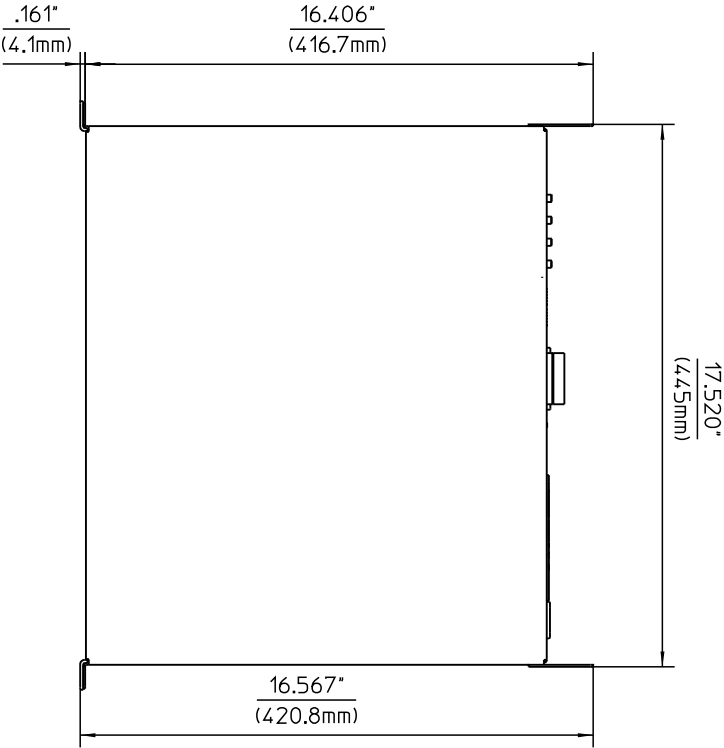
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|            |         |
|------------|---------|
| Net weight | 11.1 kg |
|------------|---------|

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**\* Depending on the ambient temperature, the unit might not operate continuously at 2  $\Omega$  load in Dual Mode or 4  $\Omega$  load in Bridged Mode. In addition input power exceeds 1.1 times rated power consumption with at 2  $\Omega$  load in Dual Mode or 4  $\Omega$  load in Bridged Mode.**





Dimensions

## System overview



Rear view

## Ordering information

### **CPS4.10-100V CPS4.10 100V ENDSTUFE**

4-channel Class-D amplifier, 2RU , per channel configurable 2/4Ohm/70V/100V, slot f. optional RCM810 remote module; 4 x 1000 W  
Order number **CPS4.10-100V**

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### **CPS4.10 CPS4.10 120V ENDSTUFE**

4-channel Class-D amplifier, 2RU , per channel configurable 2/4Ohm/70V/100V, slot f. optional RCM810 remote module; 4 x 1000 W  
Order number **CPS4.10**

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### **CPS4.10-230V CPS4.10 220-240V ENDSTUFE**

CPS4.10 230V, 4-channel Class-D amplifier, 2RU , per channel configurable 2/4Ohm/70V/100V, slot f. optional RCM810 remote module; 4 x 1000 W, black  
Order number **CPS4.10-230V**

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### **Accessories**

#### **LML-1 HiZ-Loudspeaker Line Measuring Load (4)**

Line measuring load  
Order number **LML-1**

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#### **RCM-810 Remote monitoring module**

RCM-810 Remote Control Module for IRIS-Net  
Order number **RCM-810**

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#### **DC-RMK15 RMK-15**

Rack Mount Kit for amplifiers, Length 15,5"; 1L/1R  
Order number **DC-RMK15**

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### **Represented by:**

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