

**EV** Electro-Voice

# CPS amplifiers

Contractor Precision Series



# Contractor Precision Series

Two-Channel Models CPS2.4, CPS2.6, CPS2.9, and CPS2.12

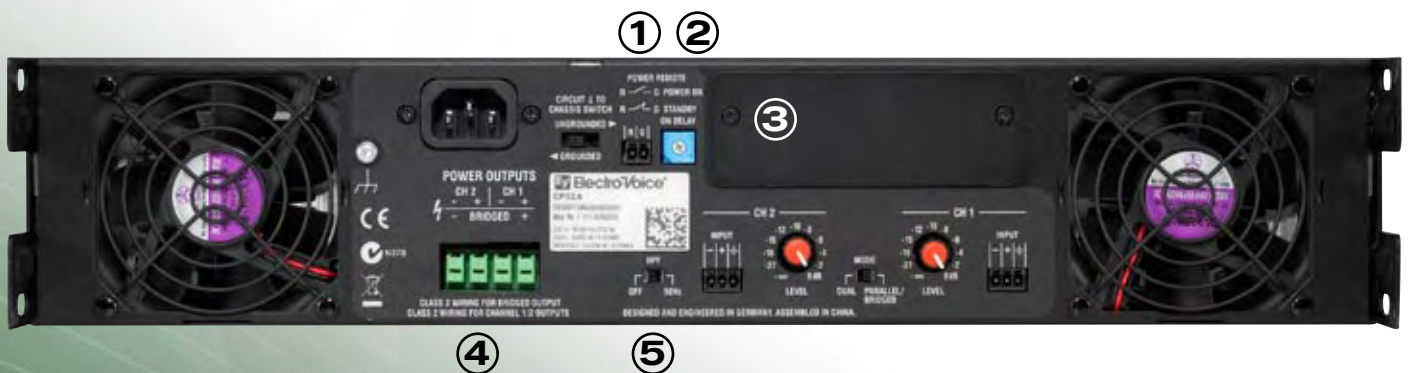
- Class-H design (CPS2.9 and CPS2.12) for increased efficiency
- First choice for cost-effective installation solutions
- Optional remote control via IRIS-Net



New CPS two-channel amplifiers provide flexibility and reliable audio performance for the professional installation business. Designed for the contractor, CPS two-channel amplifiers feature 2RU constructions, Phoenix-type connectors for inputs and outputs, pre-programmable power-on delay, easy power-on remote via contact enclosure, rear level controls, and a switchable, 50 Hz high-pass filter (HPF).

Various optional signal processing modules include 500 Hz and 800 Hz crossovers for cinema systems as well as the XHP Variable high-pass module for ZX, Sx, and EVID loudspeakers.

Like the CPS multi-channel amplifiers, CPS two-channel models also include a module slot for the RCM-810 remote-control module, enabling networking services for remote system diagnostics and control via IRIS-Net software.



CPS2.x rear view

1. Remote power-on contact
2. Programmable power-on timer
3. Module slot for RCM-810
4. Output connectors
5. High-pass filter (HPF)

# Contractor Precision Series

Multi-Channel Models CPS4.5, CPS8.5, and CPS4.10

- Class-D design for high-efficiency and low heat dissipation
- Flexible matching for Low-Z and High-Z applications
- Optional remote control via IRIS-Net
- Four- and eight-channel designs in 2RU chassis

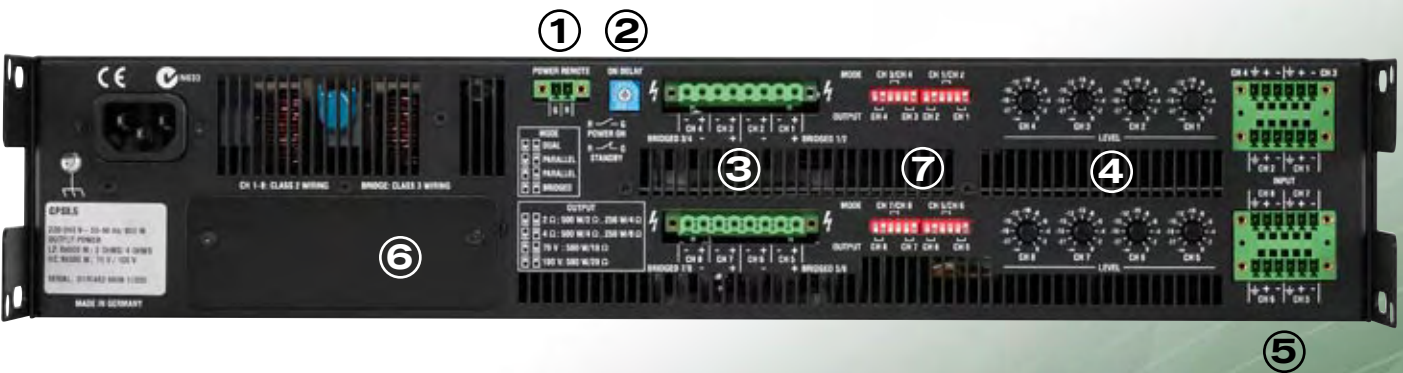


The new four- and eight-channel CPS amplifiers from Electro-Voice feature groundbreaking Class-D technology for maximum amp efficiency and minimized heat dissipation in 19-inch racks.

Each channel individually provides transformerless, switchable output characteristics, which enable specific channels to achieve maximum drive. Power into 2 Ohms, 4 Ohms, 70V, or 100V line – no transformers are required. In Hi-Z operation (70V or 100V), a 50 Hz high-pass filter (HPF) provides protection against loud-speaker transformer saturation. Additionally, amplifier channels can be bridged in pairs for double output power.

Each contractor-friendly, multi-channel CPS amplifier also features Phoenix-type connectors for inputs and outputs, pre-programmable power-on delay, easy power-on remote via contact closure, and rear level controls.

A module slot for the RCM-810 remote control module provides control network functionality, allowing for remote system diagnostics and control via IRIS-Net software. In addition, using the RCM-810's Variable Load Drive feature can tailor the amplifier's output power to match every load from 2 Ohms up to 10 Ohms in steps of 0.1 Ohms.



Rear View CPS8.5

1. Remote power-on
2. Programmable power-on delay
3. Speaker outputs
4. Level controls
5. Channel inputs
6. RCM-810 slot
7. Power mode switches

	CPS2.4II	CPS2.6II	CPS2.9	CPS2.12	CPS4.5	CPS4.10	CPS8.5
Maximum Midband Output Power THD = 1%, 1kHz	2 x 650 W/2Ω 2 x 450 W/4Ω 2 x 270 W/8Ω	2 x 900 W/2Ω 2 x 600 W/4Ω 2 x 380 W/8Ω	2 x 1250 W/2Ω 2 x 900 W/4Ω 2 x 550 W/8Ω	2 x 1800 W/2Ω 2 x 1200 W/4Ω 2 x 750 W/8Ω	4 x 500W/2Ω * 4 x 500W/4Ω * 4 x 500W/70V * 4 x 500W/100V *	4 x 1000W/2Ω * 4 x 1000W/4Ω * 4 x 1000W/70V * 4 x 1000W/100V *	8 x 500W/2Ω * 8 x 500W/4Ω * 8 x 500W/70V * 8 x 500W/100V *
Rated Output Power THD < 0.3%, 20 Hz - 20kHz	2 x 400 W/4Ω 2 x 200 W/8Ω	2 x 500 W/4Ω 2 x 250 W/8Ω	2 x 800 W/4Ω 2 x 400 W/8Ω	2 x 1100 W/4Ω 2 x 550 W/8Ω	4 x 450W/2Ω * 4 x 450W/4Ω * 4 x 450W/70V * 4 x 450W/100V *	4 x 900W/2Ω * 4 x 900W/4Ω * 4 x 900W/70V * 4 x 900W/100V *	8 x 450W/2Ω * 8 x 450W/4Ω * 8 x 450W/70V * 8 x 450W/100V *
Maximum Bridged Output Power THD = 1%, 1 kHz	1 x 1300 W/4Ω 1 x 900 W/8Ω	1 x 1800 W/4Ω 1 x 1200 W/8Ω	1 x 2500 W/4Ω 1 x 1800 W/8Ω	1 x 3600 W/4Ω 1 x 2400 W/8Ω	2 x 1000W/4Ω * 2 x 1000W/8Ω * 2 x 1000W/140V * 2 x 1000W/200V *	2 x 2000W/4Ω * 2 x 2000W/8Ω * 2 x 2000W/140V * 2 x 2000W/200V *	4 x 1000W/4Ω * 4 x 1000W/8Ω * 4 x 1000W/140V * 4 x 1000W/200V *
Maximum RMS Voltage Swing THD = 1%, 1 kHz, per Channel	55.3 V	65.1 V	78.8 V	90.6 V	100 V	100 V	100 V
Power Bandwidth THD = 1% ref.1 kHz, half power @4 Ohms load	10 Hz - 30 kHz	10 Hz - 30 kHz	10 Hz - 30 kHz	10 Hz - 30 kHz	10 Hz - 25 kHz ** 50 Hz - 25 kHz **	10 Hz - 25 kHz ** 50 Hz - 25 kHz **	10 Hz - 25 kHz ** 50 Hz - 25 kHz **
Voltage Gain, ref. 1 kHz	32.0 dB	32.0 dB	32.0 dB	32.0 dB	32 dB(2Ω/4Ω mode) 33 dB (70V mode) 36 dB (100V mode)	32 dB(2Ω/4Ω mode) 33 dB (70V mode) 36 dB (100V mode)	32 dB(2Ω/4Ω mode) 33 dB (70V mode) 36 dB (100V mode)
THD at rated output power MBW = 80 kHz, 1 kHz	< 0.03%	< 0.03%	< 0.03%	< 0.03%	< 0.05%	< 0.05%	< 0.05%
IMD-SMPTE, 60 Hz, 7 kHz	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.05%	< 0.05%	< 0.05%
DIM30, 3.15 kHz, 15 kHz	< 0.05%	< 0.05%	< 0.05%	< 0.05%	< 0.02%	< 0.02%	< 0.02%
Maximum Input Level	+21 dBu	+21 dBu	+21 dBu	+21 dBu	+21 dBu	+21 dBu	+21 dBu
Crosstalk, ref. 1 kHz, at rated output power	< 80 dB	< 80 dB	< 80 dB	< 80 dB	< 80 dB	< 80 dB	< 80 dB
Frequency Response, ref. 1 kHz	10 Hz - 40 kHz (+/- 1 dB)	10 Hz - 40 kHz (+/- 1 dB)	10 Hz - 40 kHz (+/- 1 dB)	10 Hz - 40 kHz (+/- 1 dB)	15 Hz - 30 kHz (+/- 1 dB) **	15 Hz - 30 kHz (+/- 1 dB) **	15 Hz - 30 kHz (+/- 1 dB) **
Input Impedance, active balanced	20 kΩ	20 kΩ	20 kΩ	20 kΩ	20 kΩ	20 kΩ	20 kΩ
Damping Factor, 1 kHz, 8Ω	> 300	> 300	> 300	> 300	> 240	> 240	> 240
Slew Rate	25 V/us	26 V/us	27 V/us	30 V/us	28 V/us	28 V/us	28 V/us
Output Noise, A-weighted	< -71 dBu	< -71 dBu	< -71 dBu	< -71 dBu	< -66 dBu	< -66 dBu	< -66 dBu
Output Stage Topology	Class AB	Class AB	Class H	Class H	Class D	Class D	Class D
Power Consumption, 1/8 max.output power @4Ω	550 W	700 W	700 W	850 W	490 W	840 W	930 W
Power Requirements	240V, 230V, 120V or 100V; 50 Hz or 60 Hz(factory configured)				220-240V, 50-60 Hz or 120V,50 - 60 Hz or 100V, 50-60 Hz		
Protections	Audio Limiters , Temperature, DC, HF Short Circuit, Peak Current Limiters, Inrush Current Limiters, Turn-on delay						
Cooling	Front - to - rear, 3-stage fans				Front - to - rear,continuously variable fans		
Ambient Temperature Limits	+5° C - +40° C (40° F - 105°F)						
Safety Class	I						
Dimensions (W x H x D), mm	483mm x 88.1mm x 421.5mm (19" x 34.7" x 16.6")						
Weight	12.6 kg (27.8lbs)	14.8 kg (32.8 lbs)	16.3 kg (36.1 lbs)	17.7 kg (39.2 lbs)	11.1 kg (24.6 lbs)	11.1 kg (24.6 lbs)	13.9 kg (30.8 lbs)
Optional Accessories	2-Way internal X-Over cards, 24 dB, LR, XHP-5 for 500 Hz / XHP-8 for 800 Hz ( <b>2 channel amps only</b> ) RCM-810 IRIS-Net Control & Supervision Module Rear-Rackmount Kit RMK-15						
Notes	* Variable Load Drive provides any power between 100W to 500W/1000W programmable in 1W steps ** When High-Z modes (70V or 100V) are activated, a Hipass-Filter @ 50 Hz is automatically inserted to avoid speaker X-Former saturation						

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