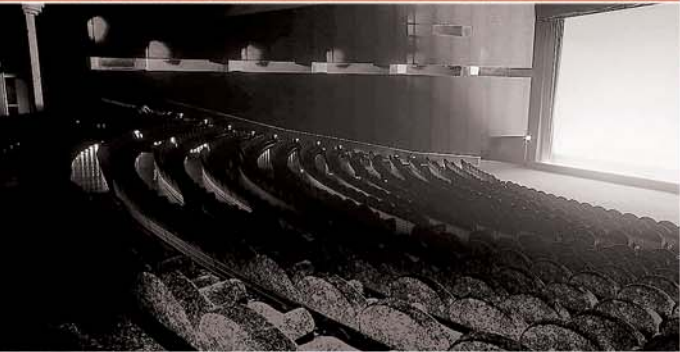




CONTRACTOR PRECISION SERIES PROFESSIONAL POWER AMPLIFIERS



PROFESSIONAL POWER AMPLIFIERS FOR FIXED INSTALLATIONS

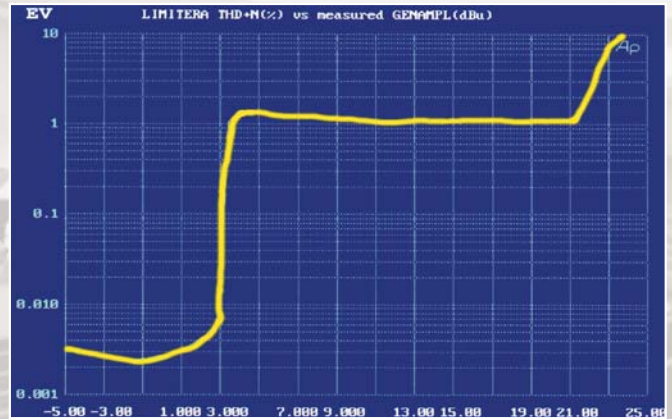


CONTRACTOR PRECISION SERIES PROFESSIONAL POWER AMPLIFIERS

EV COMPLETE PROTECTION

The extensive and complete protection system features comparator circuitry, which constantly monitors the input and output signals and activates the internal limiters whenever a non-linear operational state is encountered. This provides reliable protection of the connected loudspeaker systems against overload and clipping as well as on-board protection against thermal and capacitive overload, short-circuit and the occurrence of HF or DC at the output.

Additionally, special circuitry prevents the output-stage transistors from being damaged by Back-EMF. During soft start, delayed switching of the power outputs is accomplished via relays and a limiter controls the initial current inrush, preventing the mains fuse from being blown during the power-on operation.



EV SUPERIOR FLEXIBILITY

All models feature electronically balanced inputs that are provided via XLR-type and Phoenix connectors, which are also used to loop the signal through. Using the Input Routing-switches lets you determine if the amplifiers are operated in stereo or monaural mode; "monobridged" operation is also possible.

The dB-scaled level controls are to be found on the rear panel. These potentiometers guarantee precise and reliable operation. In normal operation all CPS power amplifiers can be used to drive loads down to 2 ohms; in bridged mode the minimal load

is 4 ohms. All amps are equipped with extremely silent running fans providing front-to-rear air circulation, guaranteeing trouble-free operation even in smaller power amplifier rack systems.



EV THE CPS ORIGINAL AMPLIFIERS - Exceptional Reliability and Value



The original CPS power amplifiers have provided reliable, clean power amplification in thousands of fixed audio installations worldwide. The CPS1, 2 and 2T continue to offer excellent value

for a variety of installations in churches auditoriums, convention centers, factories, stadiums, etc., anywhere reliable performance is needed and space is not at a premium.



CPS1 The CPS1 can deliver up to 450 watts of power at 1kHz into 4 ohms. The CPS 1 has been extremely popular in smaller venues such as houses of worship, retail spaces, and entertainment venues where background or foreground music is needed.

CPS2 The CPS2 incorporates all the advanced features of the CPS1 but can deliver up to 600 watts of power at 1kHz into 4 ohms.

CPS2T The CPS2T offers all the performance of the CPS2 and adds the capability of 70v/100v constant voltage operation. It also features Transformer Saturation Protection (TSP) that monitors the current demands of the 70v/100v matching transformer and can protect against overload and distortion. The exceptions reliability and performance of the CPS2T has made it the amplifier of choice for a wide variety of distributed audio installations such as convention centers, factories, warehouses, stadiums, office buildings etc. Anywhere large amounts of reliable 70v amplifier power is needed the CPS2T can meet the spec easily.



“All Contractor Precision Series amplifiers are made to meet the highest requirements of any demanding application. The mechanical construction follows the highest precision standards of the industry. Now with the addition of the Class-H series, their flexibility is unmatched!”

EV THE CPS CLASS-H HIGH EFFICIENCY SERIES

With the EV's new CPS Class-H series you get more of what you have come to expect from EV's original CPS power amplifiers:

- **HIGHER EFFICIENCY**
- **MORE FLEXIBILITY**
- **MORE COMPACT FORMAT**

EV INNOVATIVE ENGINEERING MEANS EXTRA RELIABILITY

In EV's Class H design, rather than supplying the voltage for the maximum output power permanently, the permanent voltage rail is designed to cover the average music signal. If dynamic peaks require a higher output voltage, the voltage rail is switched to the maximum. This process saves nearly 50% of the power consumption in a conventional design and results in a dramatic reduction in heat output. The real test in a successful Class-H design is to make the voltage switching totally un audible to the user. This is where EV's amplifier engineering excellence makes the difference over other so-called "switching" designs. The

These state-of-the-art power amplifiers offer our proven original CPS performance and reliability in a new compact, lightweight format. This is made possible by incorporating a highly efficient Class-H design, which results in substantially less heat being generated. This allows the overall size of the amplifier to be reduced substantially without sacrificing performance or reliability. In addition, new features enhance the operational flexibility in many of your installations. And all of this is coupled to our comprehensive protection package present in all EV CPS amplifiers.

audio performance of the CPS Class-H amplifiers speaks for itself. They truly set the new standard in Class-H amplifiers and meet the expectations we set in the original CPS models. All the CPS amplifiers have the ability to accept the XC crossover/filter cards. The 24dB crossover cards send by default lo-pass signal on channel A and hi-pass signal on channel B, but could be modified differently if needed. The XC5 for example is the perfect card to make a CPS2 or a CPS 2.6 or CPS2.8 to drive a standard cinema 2-way system. The XHP card with variable 12dB hi-pass filters per channel has a dedicated setting for the Sx600PI/PIX.

EV ALL THIS ADDS UP TO EXTRA PERFORMANCE

The CPS Class H series of amplifiers deliver state-of-the-art performance. All four models are capable of remote control activation with adjustable power-on delay times saving time and money in larger installs with central power distribution.

The specifications speak for themselves. Four models are available ranging from 400 watts/channel all the way up to 1100 watts per channel into 4 ohms.



CPS 2.4 The CPS2.4 is ideal for smaller full range systems or larger mid/high frequency amplification in larger installations. The CPS2.4 is an ideal companion to the popular EVID line of premium surface mount and ceiling speaker systems.

CPS 2.6 The workhorse of the line. Its 600 watts of compact power is perfect for mid level full range installs.

CPS 2.8 At 800 watts per channel the CPS2.8 is the best value in the line. It can power a wide range of speaker cabinets either in multi-way or full range modes for a large range of fixed installation jobs.

CPS 2.11 No power amplifier on the market can offer such a high level of power performance and reliability. At 1100 watts/channel the CPS2.11 can power large stadium, theatre and auditorium type installations with ease.



SPECIFICATIONS

	CPS 1			CPS 2			CPS 2T			CPS 2.4			CPS 2.6			CPS 2.8			CPS 2.11		
LOAD IMPEDANCE:	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω (100V/70V)	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω
MAX. MIDBAND OUTPUT POWER THD = 1%, 1kHz, Dual Channel	650W	450W	280W	850W	600W	350W	850W	600W (590/580W)	380W	600W	400W	240W	900W	600W	350W	1100W	800W	500W	1600W	1100W	600W
RATED OUTPUT POWER THD = 0,1 %, 20 Hz ... kHz	-	350W	230W	-	500W	300W	-	500W (590/580W)	330W	-	300W	150W	-	500W	250W	-	700W	350W	-	900W	450W
MAX. BRIDGED OUTPUT POWER THD = 1%, 1 kHz	-	1300W	900W	-	1700W	1200W	-	1700W	1200W	-	1240W	800W	-	1800W	1200W	-	2200W	1600W	-	3200W	2200W
MAXIMUM RMS VOLTAGE SWING THD = 1%, 1 kHz	56 V			64 V			52 V	52 V (121V/88V)	52 V	50 V			62 V			72 V			78 V		
POWER BANDWIDTH THD = 1%, 1kHz, half power @ 4 Ω	10 Hz ... 60 kHz																				
VOLTAGE GAIN ref. 1 kHz	32.5 dB			33.5 dB			35.0 dB (42/39 dB)			32.0 dB			32.0 dB			32.0 dB			32.0 dB		
INPUT SENSITIVITY Rated power @ 8 Ω, 1 kHz	+2.2 dBu (1.0 Vrms)			+2.2 dBu (1.0 Vrms)			0 dBu (0.775 Vrms)			+1.15 dBu (0.88 Vrms)			+3.2 dBu (1.12 Vrms)			+4.7 dBu (1.33 Vrms)			+5.8 dBu (1.51 Vrms)		
THD @ rated output power (<0.1%, CPS2T@100V)	< 0.05 %																				
IDE - SMP 60 Hz, 7kHz	< 0.08 %			< 0.08 %			< 0.08 % (<0.1%@100V)			< 0.02 %			< 0.02 %			< 0.02 %			< 0.02 %		
DIM30 3.15 kHz, 15 kHz	<0.03%			<0.03%			<0.03% (<0.1%@100V)			< 0.01 %			< 0.01 %			< 0.01 %			< 0.05 %		
MAXIMUM INPUT LEVEL	+22 dBu (9.76 Vrms)																				
CROSSTALK ref. 1 kHz, rated output power	< -80 dB																				
FREQUENCY RESPONSE ref. 1 kHz	15 Hz ... 40 kHz (±1 dB)																				
INPUT IMPEDANCE active balanced	20 kΩ																				
DAMPING FACTOR 1 kHz	> 300																				
SLEW RATE	25 V/μs			30 V/μs			30 V/μs			35 V/μs			35 V/μs			35 V/μs			35 V/μs		
SIGNAL TO NOISE RATIO (A-weighted)	>105dB			>105dB			>100dB			103,5 dB			105,5 dB			107 dB			107 dB		
POWER REQUIREMENT	240 V, 230 V, 220 V, 120 V or 100 V ; 50 ... 60 Hz (factory configured)																				
POWER CONSUMPTION	690W			870W			870W			600W			500W			660W			820W		
POWER DISSIPATION 1/8 max. output power @ 4 Ω	510W (1730BTU/hr)			650W (2220BTU/hr)			650W (2220BTU/hr)			396W (1350BTU/hr)			260W (885BTU/hr)			320W (1090BTU/hr)			396W (1350BTU/hr)		
PROTECTION	Audio Limiters, High Temperature, DC, HF, Back-EMF, Peak current Limiters, Inrush Current Limiters, Turn-On delay																				
COOLING	Front to Rear, 3-stage Fans																				
DIMENSIONS (W x H x D)	483mm x 132.5mm x 386.8mm (19" x 5.22" x 15.22")									483mm x 88.1mm x 386.8mm (19" x 3.5" x 15.22")											
WEIGHT	15 kg (33.1 lbs)			16 kg (35.3 lbs)			22.5 kg (49.6 lbs)			13.5 kg (30.8 lbs)			15 kg (33 lbs)			16 kg (35.2 lbs)			8.15 kg (17.96 lbs)		
OPTIONAL ACCESSORY	Rear-Rack Mount Kit 18" (D) 112933, Filter cards please see below!																				

Note: all measurements both channels driven into 8 Ohms unless otherwise specified.

XC SERIES FILTER CARDS for CPS AMPLIFIERS: All the CPS amplifiers have the ability to accept the XC crossover/filter cards. The 24dB crossover cards (Linkwitz-Riley) send by default lo-pass signal on channel A and hi-pass signal on channel B, but could be modified differently if needed. The XC5 for example is the perfect card to make a CPS2 or a CPS 2.6 or CPS2.8 to drive a standard cinema 2-way system (e.g. TS9040D-LX). The XHP card with variable 12dB hi-pass filters per channel has a dedicated setting for the Sx600PI/PIX.

XC5 - 500 Hz crossover point • **XC8** - 800 Hz crossover point • **XC12** - 1200 Hz crossover point • **XHP** - 12dB Hi-Pass variable (80Hz-300Hz) or Sx600PI/Sx600PIX



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