

Contractor Precision Series Amplifiers

CPS2.8 High-Efficient, Lightweight 2 Channel Power Amplifier



Key Features:

- 2 x 1100W/ 2 Ohms
- High Efficient Class H-Design
- 2 U Rack Space
- Detend Rear Level Controls
- Complete Protection Package
- Dynamic Limiter
- Phoenix Type Inputs,
- Barrier Outputs
- Retrofit X-over Kits
- Remote Power On/Off



General Description:

The CPS2.8 is from the Contractor Precision Series of professional amplifiers. The high efficient Class-H design reduces the power dissipation significantly and allows for more amplifier channels and output power in a given rack space. The audio performance of the CPS2.8 is state-of-the art and fulfills the highest sound expectations in demanding applications from concert sound to theater. The CPS2.8 features the same complete protection package as all EV Precision Series amplifiers. Protection against: excessive HF, DC fault, high temperature, and Back-EMF as well as turn-on delay, peak current and inrush current limiters. In addition to the rated output power the CPS2.8 provides up to 30% percent headroom for a wide dynamic range on music signals. The onboard dynamic limiter ensures that the output clipping of the CPS2.8 will not exceed a THD of 1% up to an input signal of +21dBu. Detend level controls on the rear panel provide precise (1dB-detend) and repeatable settings. Front panel LEDs indicate signal present, 0 dB, and limit. Female XLRs and Phoenix type connectors for inputs and barrier strips for outputs provide an easy rack wiring. The power on/off function of the CPS2.8 can be remote controlled via a 24V DC source. Optional x-over cards for biamp operation (e.g. a 2-way cinema system) can be retrofitted.

Optional Accessories:

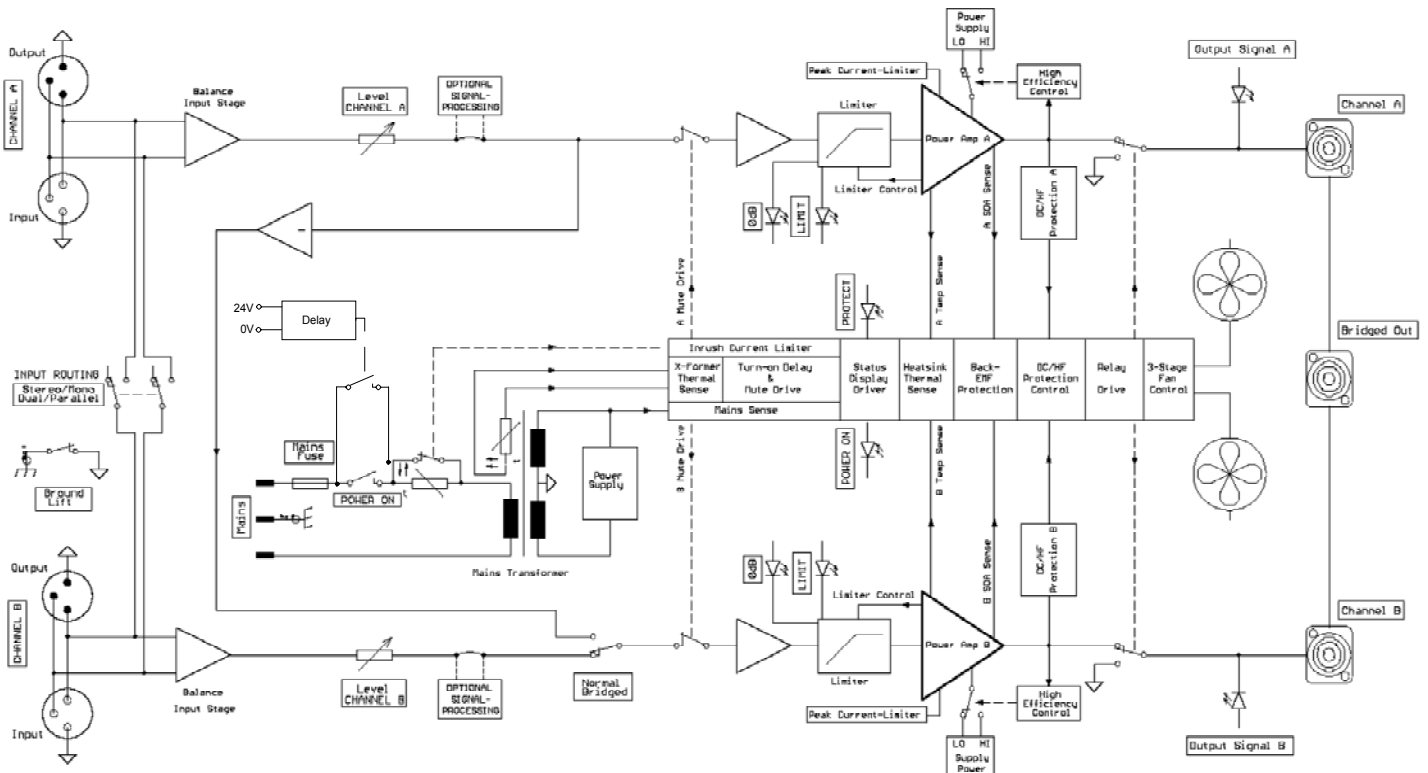
Rear-Rackmount Kit 15.5"	112930 (NRS90262)
Rear-Rackmount Kit 18"	112933 (NRS90264)
Retrofit X-Over Cards	
24dB Linkwitz-Riley @ 330Hz	170094 (NRS90249)
24dB Linkwitz-Riley @ 500Hz	170096 (NRS90250)
24dB Linkwitz-Riley @ 800Hz	170097 (NRS90251)
24dB Linkwitz-Riley @ 1200Hz	170098 (NRS90252)

Specifications:

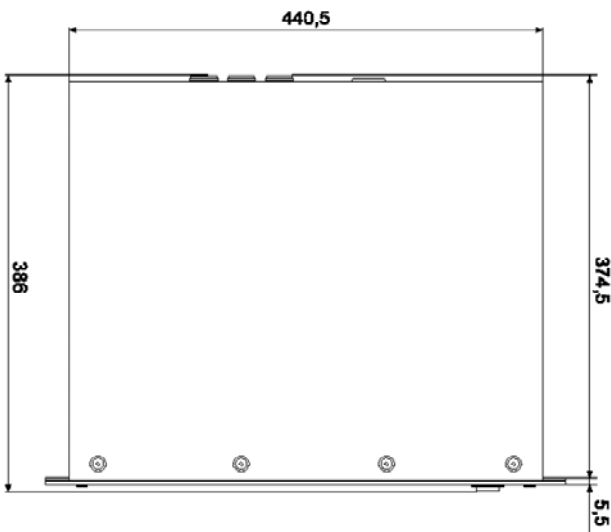
Amplifier at rated conditions, both channels driven, 8 Ohms load, unless otherwise specified.

Maximum Midband Output Power 2, 4, 8 Ω THD = 1% , 1kHz, Dual Channel	1100 W, 800 W, 500 W
Rated Output Power 4, 8 Ω THD < 0.1%, 20Hz ... 20kHz	700 W, 350 W
Maximum Single Channel Output Power 2, 4, 8 Ω Dynamic-Headroom, IHF-A	2200 W, 1200 W, 625 W
Maximum Single Channel Output Power 2, 4, 8 Ω Continuous, 1kHz	1500 W, 950 W, 550 W
Maximum Bridged Output Power 4, 8 Ω THD = 1%, 1kHz	2200 W, 1600 W
Maximum RMS Voltage Swing (THD 1%, 1kHz)	72 V
Power Bandwith (THD = 1%, ref.1kHz, half power @ 4 Ohms)	10 Hz ... 60kHz
Voltage Gain, ref.1kHz	32.8 dB
Input Sensitivity (@ rated power, 8 Ω, 1kHz)	+ 4 dBu (1.23 Vrms)
THD at rated output power, (MBW = 80kHz, 1kHz)	< 0.05%
IMD-SMPTE (60 Hz, 7 kHz)	< 0.02%
DIM30 (3,15 kHz, 15 kHz)	< 0.01%
Maximum Input Level	+22dBu (9.76 Vrms)
Crosstalk (ref. 1kHz, at rated output power)	< -80dB
Frequency Response (+/- 1dB, ref.1 kHz)	15 Hz ... 40 kHz
Input Impedance active balanced	20kW
Damping Factor @ 1kHz	> 300
Slew Rate	35 V/μs
Signal to Noise Ratio Amplifier input sensitivity +4dBu, A-weighted	107dB
Power Requirements	240, 230V, 120V or 100V; 50Hz ... 60Hz (factory configured)
Power Consumption (1/8 max. output power @ 4 Ohms, +10%)	660W
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
Safety Class	I
Dimensions (W x H x D), mm	483 x 88.1 x 386.8
Net Weight	16 kg (35.2 lbs)
Shipping Weight	17,5kg (38,5lbs)

Block Diagram



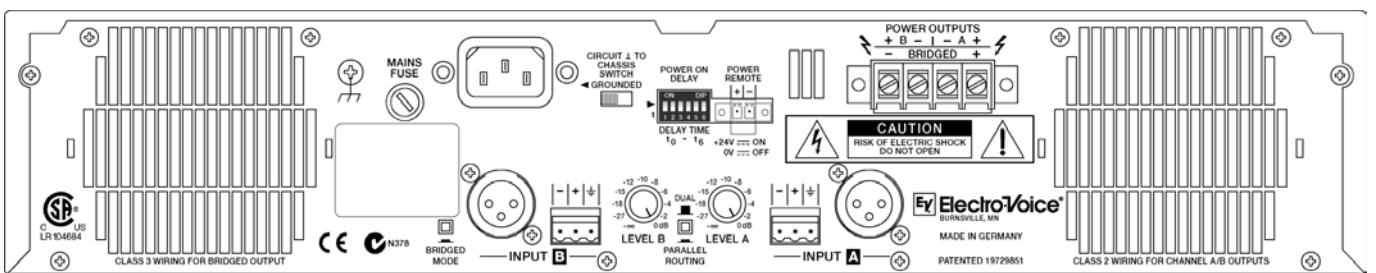
Dimensions in mm



Versions and Part Numbers:

CPS2.8, 100V	170255
CPS2.8, 120V	170261
CPS2.8, 230V	170273
CPS2.8, 240V	170279

Rear View



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