

Electro-Voice



Technische Informationen
Engineering Data Sheet

CPS Series

Power Amplifiers

Beschreibung

Die Endstufen der Contractor Precision-Serie von Electro-Voice bieten eine hohe, stabile Ausgangsleistung bei hohem Wirkungsgrad auf hohem Performance-Niveau. Sie sind damit der ideale Antrieb für typische Anwendungen in der Festinstallation, wie z. B. mit Lautsprechern der Serien EVI, FRi, FRX oder Variplex. Die Endstufen sind gegen Überhitzung, Überlast, Kurzschluss sowie Hochfrequenz und Gleichspannung am Ausgang geschützt. Eine Beschädigung der Endtransistoren durch Rückeinspeisung elektrischer Energie wird durch die Back-EMF Schutzschaltung verhindert. Beim Softstart werden die Leistungsausgänge über Relais verzögert zugeschaltet. Zusätzlich verhindert eine Einschaltstrombegrenzung das Ansprechen von Netzsicherungen. Durch Einbau eines optionalen RCM-810 Remote Control Moduls ist die Überwachung der Endstufe und der angeschlossenen Lautsprecher über die PC-Software IRIS-Net möglich.

Description

Electro-Voice Contractor Precision series amplifiers offer a package of reliable high output power, high efficiency and legendary pro audio performance. They are the premium choice as system drive for a variety of Electro-Voice's installation loudspeakers like e.g. EVI, FRi, FRX or Variplex families. Their comprehensive protection system includes circuitry against overheating, overload, short circuit, HF and DC as well as back-EMF. A soft start circuit compensates mains inrush current peaks and thus prevents triggering AC mains fuse when switching on the amplifier. Loudspeakers are protected by turn-on-delay relays. Using an optional RCM-810 Remote Control Module allows supervision of the amplifier and connected loudspeakers via IRIS-Net software.

Part Number

		100 V	120 V	230 V	240 V
CPS2.4	Power Amplifier 2 x 450 W	F.01U.076.849	F.01U.076.841	F.01U.076.837	F.01U.076.845
CPS2.6	Power Amplifier 2 x 600 W	F.01U.076.850	F.01U.076.842	F.01U.076.838	F.01U.076.846
CPS2.9	Power Amplifier 2 x 900 W	F.01U.076.851	F.01U.076.843	F.01U.076.839	F.01U.076.847
CPS2.12	Power Amplifier 2 x 1200 W	F.01U.076.852	F.01U.076.844	F.01U.076.840	F.01U.076.848

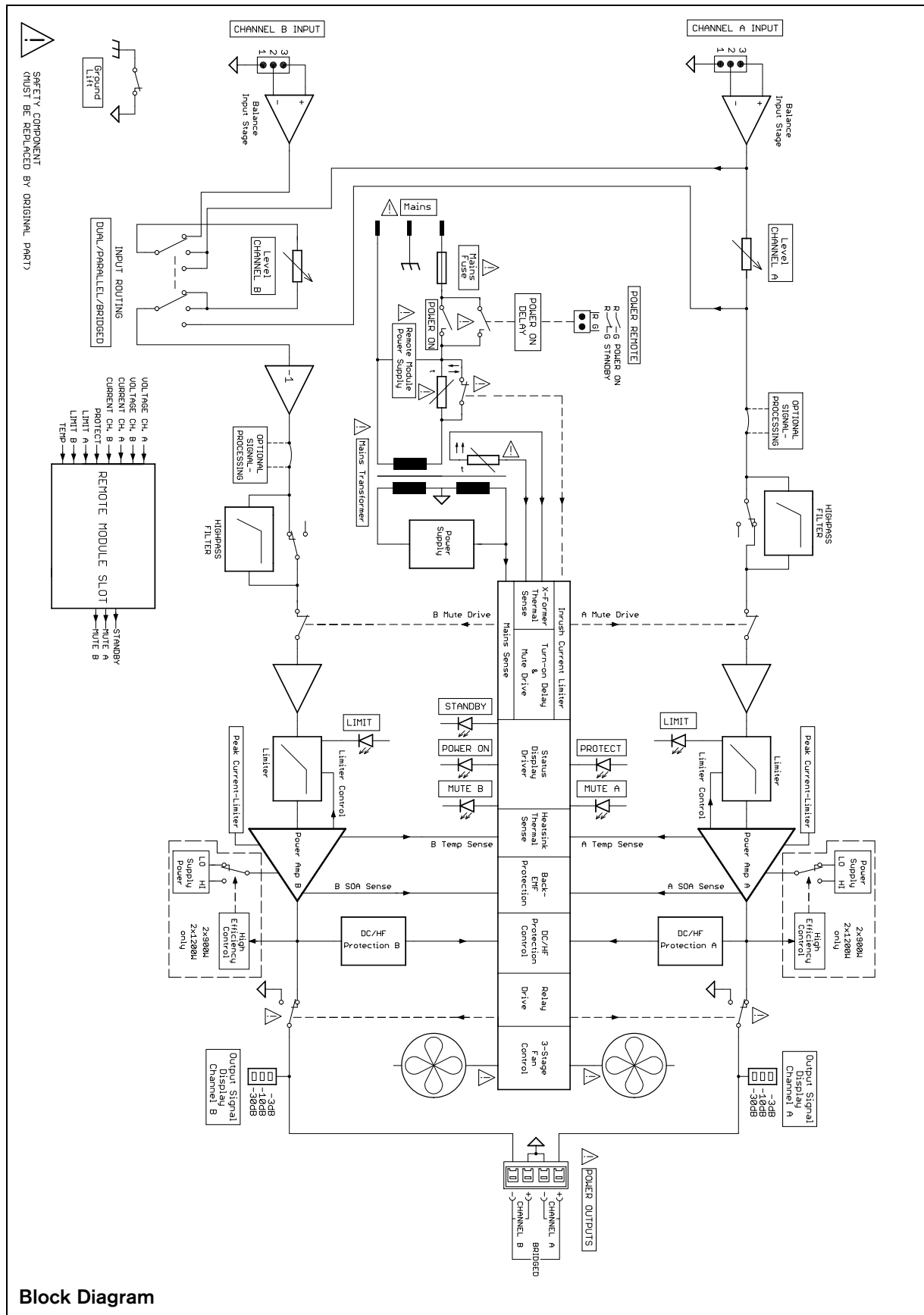
Inhalt

1 x Endstufe
1 x Bedienungsanleitung
1 x Netzkabel
1 x Ausgangsstecker, 4polig (F.01U.064.830)
2 x Eingangsstecker, 3polig (F.01U.011.970)
1 x Power Remote Stecker, 2polig (F.01U.011.969)
4 x Standfuß

Contents

1 x Power Amplifier
1 x Owner's Manual
1 x Mains Cord
1 x Output connector, 4 pole (F.01U.064.830)
2 x Input connector, 3 pole (F.01U.011.970)
1 x Power Remote connector, 2 pole (F.01U.011.969)
4 x Foot Stand

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Technical Specifications

	CPS2.4			CPS2.6			CPS2.9			CPS2.12		
Load Impedance	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω
Maximum Midband Output Power THD = 1%, 1 kHz, Dual Channel	650 W	450 W	270 W	900 W	600 W	380 W	1250 W	900 W	550 W	1800 W	1200 W	750 W
Rated Output Power THD < 0.1%, 20 Hz...20 kHz	-	400 W	200 W	-	500 W	250 W	-	800 W	400 W	-	1100 W	550 W
Maximum Single Channel Output Power Dynamic-Headroom, IHF-A	1150 W	660 W	350 W	1700 W	950 W	480 W	2450 W	1400 W	700 W	3400 W	1800 W	950 W
Maximum Single Channel Output Power Continuous, 1 kHz	850 W	540 W	310 W	1200 W	750 W	420 W	1700 W	1100 W	630 W	2400 W	1500 W	850 W
Maximum Bridged Output Power THD = 1%, 1 kHz	-	1300 W	900 W	-	1800 W	1200 W	-	2800 W	1800 W	-	3600 W	2400 W
Maximum RMS Voltage Swing THD = 1%, 1 kHz	55.3 V			65.1 V			78.8 V			90.6 V		
Power Bandwidth THD = 1%, ref. 1 kHz, half power @ 4 Ω	< 10 Hz...30 kHz											
Voltage Gain, ref. 1 kHz	32.0 dB											
Input Sensitivity rated power @ 8 Ω, 1 kHz	+2.2 dBu (1.0 V _{rms})			+3.1 dBu (1.11 V _{rms})			+5.1 dBu (1.39 V _{rms})			+6.6 dBu (1.66 V _{rms})		
THD at rated output power MBW = 80 kHz, 1 kHz	< 0.03%											
IMD-SMPTE, 60 Hz, 7 kHz	< 0.1%											
DIM30, 3.15 kHz, 15 kHz	< 0.05%											
Maximum Input Level	+21 dBu (8.69 V _{rms})											
Crosstalk ref. 1 kHz, at rated output power	< -80 dB											
Frequency Response, ref. 1 kHz	10 Hz...40 kHz (±1 dB)											
Input Impedance, active balanced	20 kΩ											
Damping Factor, 1 kHz	> 300											
Slew Rate	25 V/μs			26 V/μs			27 V/μs			30 V/μs		
Signal to Noise Ratio Amplifier A-weighted	> 106 dB			> 107 dB			> 109 dB			> 110 dB		
Output Noise, A-weighted	< -71 dBu											
Output Stage Topology	Class AB						Class H					
Power Requirements	240 V, 230 V, 120 V or 100 V; 50 Hz...60 Hz (factory configured)											
Power Consumption 1/8 maximum output power @ 4 Ω	550 W			700 W			700 W			850 W		
Power Consumption Rated output power @ 8 Ω	670 W			850 W			1280 W			1690 W		
Mains Fuse	240 V / 230 V: T10AH; 120 V / 100 V: T20AH			240 V / 230 V: T12AH; 120 V / 100 V: T25AH			240 V / 230 V: T15AH; 120 V / 100 V: T25AH			240 V / 230 V: T15AH; 120 V / 100 V: T30AH		
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											
Ambient Temperatur Limits	+5 °C...+40 °C (40 °F...105 °F)											
Safety Class	I											
Dimensions (W x H x D), mm	483 x 88.1 x 421.5											
Weight	12.6 kg (27.8 lbs)			14.8 kg (32.6 lbs)			16.3 kg (35.9 lbs)			17.7 kg (39.0 lbs)		
Signal Processing	Lo-Cut 50 Hz / 18 dB, switchable											
Options												
Remote Control Module	RCM-810 (F.01U.101.277)											
Internal filter card	NRS 90250: 2-Way Crossover, 500 Hz, 24 dB, LR (F.01U.101.109) NRS 90251: 2-Way Crossover, 800 Hz, 24 dB, LR (F.01U.101.110) NRS 90265: Variable Highpass (F.01U.101.199)											
Rear-rackmount	RMK-15 (F.01U.135.402)											

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

Abmessungen / Dimensions

