



Technische Informationen
Engineering Data Sheet

DSA Series

Digital System Power Amplifiers

Beschreibung

Die Endstufen der Digital System-Serie von DYNACORD bieten eine hohe, stabile Ausgangsleistung bei hohem Wirkungsgrad auf hohem Performance-Niveau. Die DSA-Endstufen sind damit der ideale Antrieb für typische Anwendungen in der Festinstallation, wie z. B. mit Lautsprechern der D-Lite, Forum, VariLine und Cobra Familien. 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

DYNACORD Digital System 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 DYNACORD's installation loudspeakers like e.g. D-Lite, Forum, VariLine or Cobra loudspeaker 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

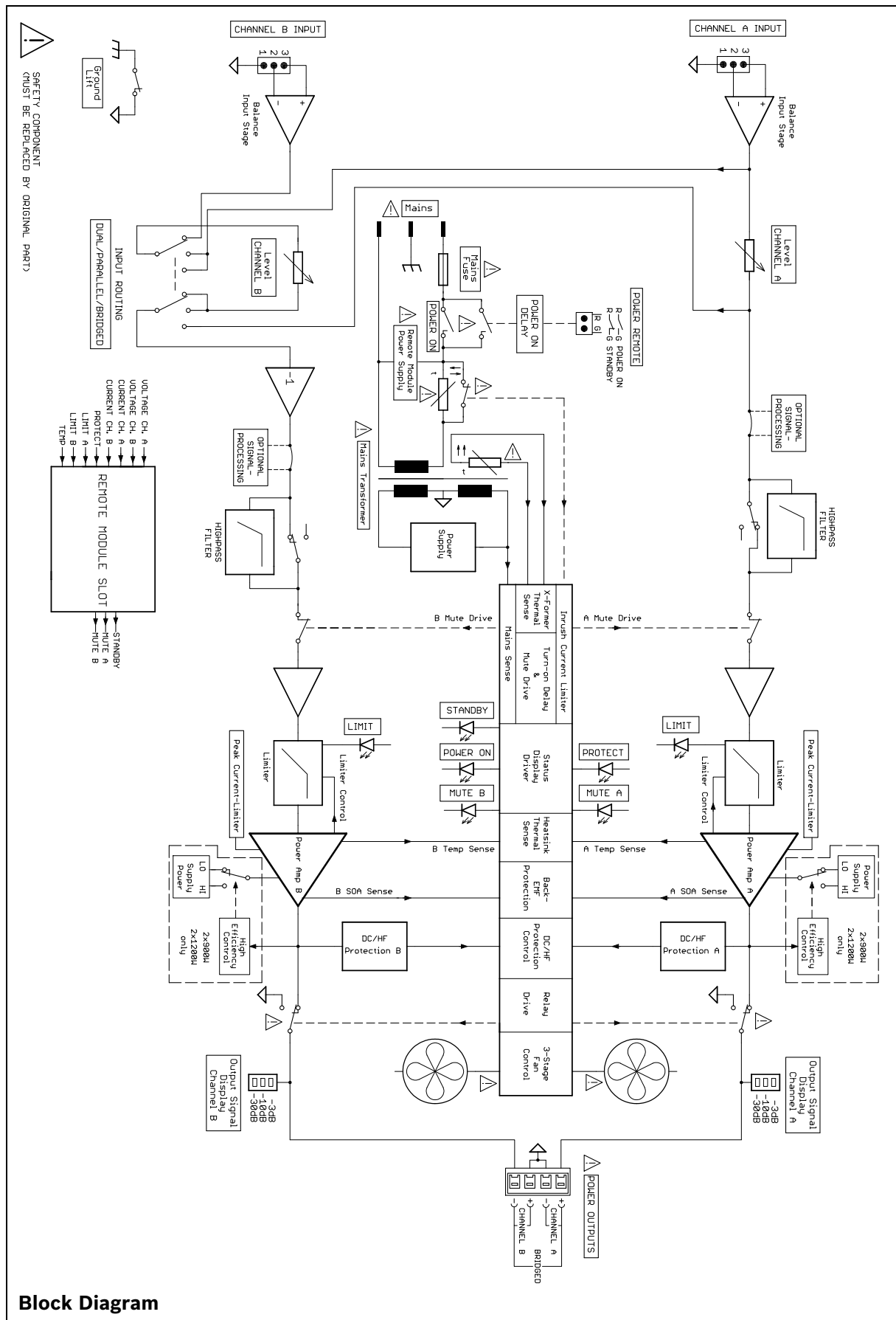
		100 V	120 V	230 V	240 V
DSA 8204	Power Amplifier 2 x 450 W	F.01U.076.873	F.01U.076.869	F.01U.076.865	F.01U.090.116
DSA 8206	Power Amplifier 2 x 600 W	F.01U.076.874	F.01U.076.870	F.01U.076.866	F.01U.090.117
DSA 8209	Power Amplifier 2 x 900 W	F.01U.076.875	F.01U.076.871	F.01U.076.867	F.01U.090.118
DSA 8212	Power Amplifier 2 x 1200 W	F.01U.076.876	F.01U.076.872	F.01U.076.868	F.01U.090.119

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





Technical Specifications

	DSA 8204			DSA 8206			DSA 8209			DSA 8212		
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 to 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 to 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 to 40 kHz (±1 dB)											
Input Impedance active balanced	20 kΩ											
Damping Factor, 1 kHz	> 300											
Slew Rate	25 V/ms			26 V/ms			27 V/ms			30 V/ms		
Signal to Noise Ratio 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 to 60 Hz (factory configured)											
Power Consumption 1/8 max. output power @ 4 Ω	550 W			700 W			700 W			850 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 Temperature Limits	+5 °C to +40 °C (40 °F to 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	HPF / 18 dB, switchable											
Optional Accessories												
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

