

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

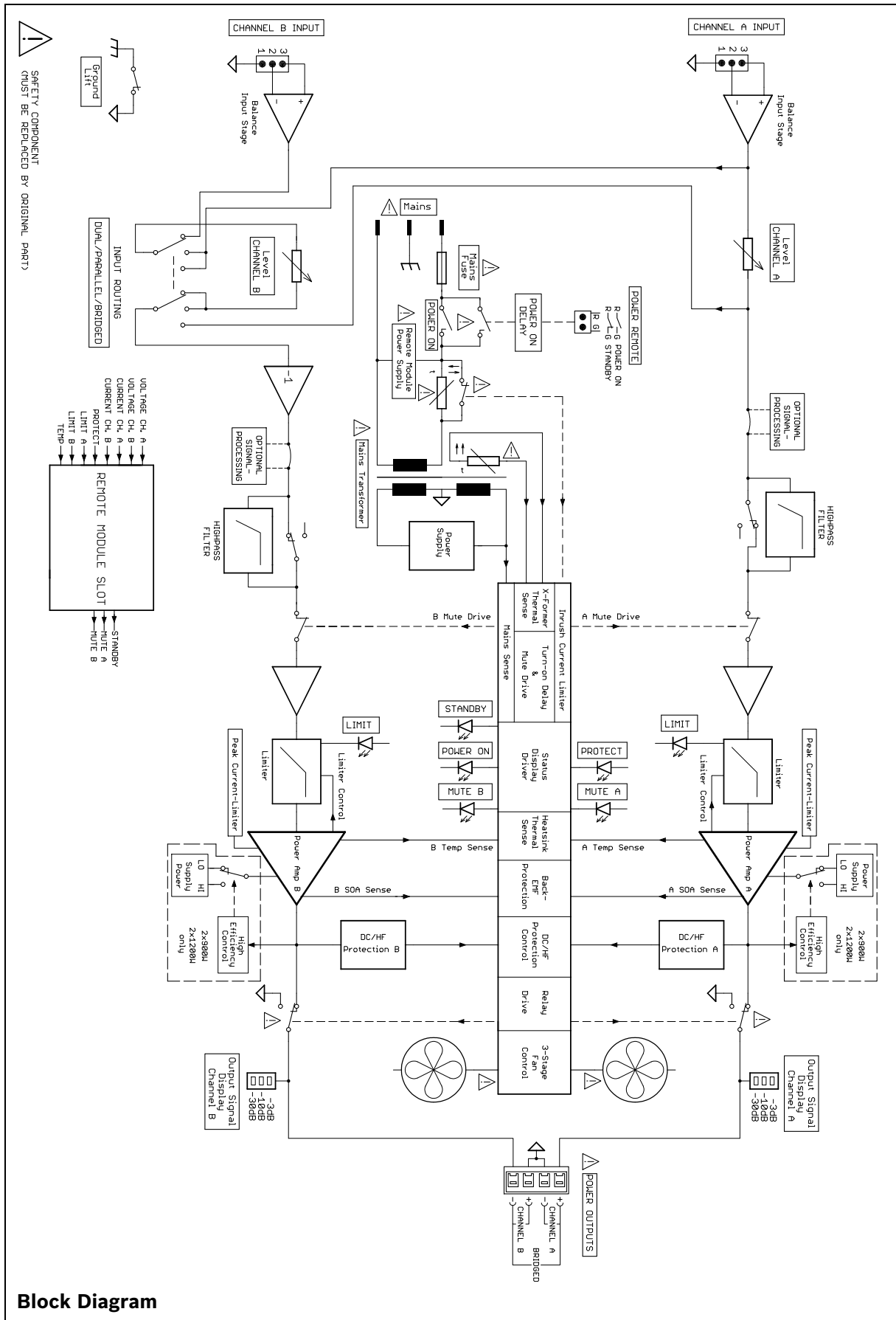
		100 V	120 V	230 V	240 V
<b>DSA 8204</b>	Power Amplifier 2 x 450 W	F.01U.076.873	F.01U.076.869	F.01U.076.865	F.01U.090.116
<b>DSA 8206</b>	Power Amplifier 2 x 600 W	F.01U.076.874	F.01U.076.870	F.01U.076.866	F.01U.090.117
<b>DSA 8209</b>	Power Amplifier 2 x 900 W	F.01U.076.875	F.01U.076.871	F.01U.076.867	F.01U.090.118
<b>DSA 8212</b>	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



**Block Diagram**



## Technical Specifications

	DSA 8204			DSA 8206			DSA 8209			DSA 8212		
<b>Load Impedance</b>	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω
<b>Maximum Midband Output Power</b> 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
<b>Rated Output Power</b> THD < 0.1%, 20 Hz to 20 kHz	-	400 W	200 W	-	500 W	250 W	-	800 W	400 W	-	1100 W	550 W
<b>Maximum Single Channel Output Power</b> 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
<b>Maximum Single Channel Output Power</b> 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
<b>Maximum Bridged Output Power</b> THD = 1%, 1 kHz	-	1300 W	900 W	-	1800 W	1200 W	-	2800 W	1800 W	-	3600 W	2400 W
<b>Maximum RMS Voltage Swing</b> THD = 1%, 1 kHz	55.3 V			65.1 V			78.8 V			90.6 V		
<b>Power Bandwidth</b> , THD = 1%, ref. 1 kHz, half power @ 4 Ω	< 10 Hz to 30 kHz											
<b>Voltage Gain</b> , ref. 1 kHz	32.0 dB											
<b>Input Sensitivity</b> rated power @ 8 Ω, 1 kHz	+2.2 dBu (1.0 V <sub>rms</sub> )			+3.1 dBu (1.11 V <sub>rms</sub> )			+5.1 dBu (1.39 V <sub>rms</sub> )			+6.6 dBu (1.66 V <sub>rms</sub> )		
<b>THD at rated Output Power</b> MBW = 80 kHz, 1 kHz	< 0.03%											
<b>IMD-SMPTE</b> , 60 Hz, 7 kHz	< 0.1%											
<b>DIM30</b> , 3.15 kHz, 15 kHz	< 0.05%											
<b>Maximum Input Level</b>	+21 dBu (8.69 V <sub>rms</sub> )											
<b>Crosstalk</b> ref. 1 kHz, at rated output power	< -80 dB											
<b>Frequency Response</b> ref. 1 kHz	10 Hz to 40 kHz (±1 dB)											
<b>Input Impedance</b> active balanced	20 kΩ											
<b>Damping Factor</b> , 1 kHz	> 300											
<b>Slew Rate</b>	25 V/ms			26 V/ms			27 V/ms			30 V/ms		
<b>Signal to Noise Ratio</b> A-weighted	> 106 dB			> 107 dB			> 109 dB			> 110 dB		
<b>Output Noise</b> , A-weighted	< -71 dBu											
<b>Output Stage Topology</b>	Class AB						Class H					
<b>Power Requirements</b>	240 V, 230 V, 120 V or 100 V; 50 Hz to 60 Hz (factory configured)											
<b>Power Consumption</b> 1/8 max. output power @ 4 Ω	550 W			700 W			700 W			850 W		
<b>Mains Fuse</b>	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		
<b>Protection</b>	Audio limiters, High temperature, DC, HF, Back-EMF, Peak current limiters, Inrush current limiters, Turn-on delay											
<b>Cooling</b>	Front-to-rear, 3-stage-fans											
<b>Ambient Temperature Limits</b>	+5 °C to +40 °C (40 °F to 105 °F)											
<b>Safety Class</b>	I											
<b>Dimensions</b> (W x H x D), mm	483 x 88.1 x 421.5											
<b>Weight</b>	12.6 kg (27.8 lbs)			14.8 kg (32.6 lbs)			16.3 kg (35.9 lbs)			17.7 kg (39.0 lbs)		
<b>Signal Processing</b>	HPF / 18 dB, switchable											
<b>Optional Accessories</b>	RCM-810 (F.01U.101.277)											
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

