DSA 8410 4x 1000 W Multichannel Power Amplifier for Fixed Install Applications





- 4 x 1000 W
- Class D
- 2 HU
- Optimized for permanent installation
- Optional Remote Control Module (RCM-810)

The multi-channel power amps DSA 8405/8410/8805 are members of the DYNACORD DSA Series, which mark a milestone in the design and production of highperformance power amps. The unique combination of Class D power amp blocks and synchronized switching power supply offers power density which, to this day, is unrivalled and, at the same time, provides excellent audio performance. The possibility to individually switch the operation mode of each power amplifier channel makes DSA multi-channel power amps particularly flexible in use. By default, low-impedance mode (LZ \geq 2 Ω) is set for all channels. If needed, each channel can be separately switched to high-impedance operation (HZ) to directly drive 70 V or 100 V speaker lines without the need for additional output transformers (Direct Drive).

Through VLD (Variable Load Drive) in combination with a RCM-810 remote control module, it is possible to define freely which output power should be made available in the channel in question: e.g. Channel 1 = 350 W into $2.6~\Omega$; Channel 2 = 500 W into $8~\Omega$ etc.

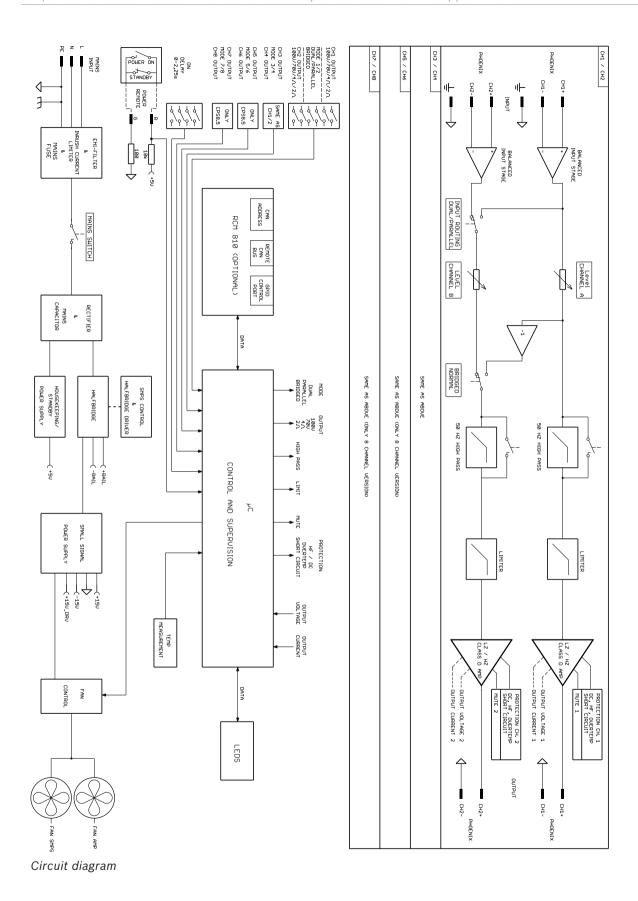
The omission of output transformers together with the highly efficient Class D power amp blocks and a switching power supply makes an exceptionally attractive, environment and resource friendly amplifier. DSA multi-channel power amps are ideal for driving any professional fixed installation and ProSound application using, for example, D-Lite, Forum, VariLine or Cobra Series speaker systems. The power amps are protected against thermal and electrical overload as well as short-circuit and the occurrence of RF or DC voltage at the outputs. Speaker system switch-on is delayed by a soft start circuit. Power on delay (0 - 2.25 seconds) is available. An inrush-current limiter circuit additionally protects mains fuses from being blown. Monitoring the power amplifier and connected loudspeaker systems from a computer using the IRIS-Net PC software application is possible after retrofitting an optionally available Remote Control Module (e.g. RCM-810).

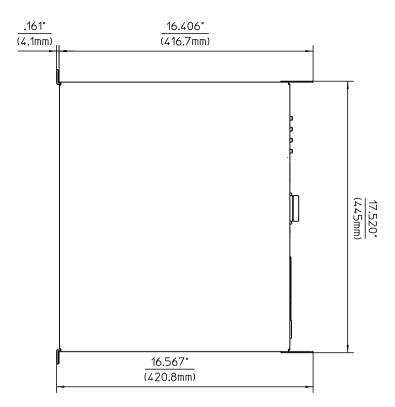
Technical specifications

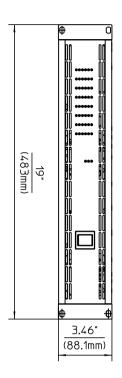
	Low impedance mode			High impedance mode	
	2Ω	4Ω	8Ω	70 V/10 Ω	$100\text{V}/20\Omega$
Maximum midband output power, THD = 1%, 1 kHz, 4 channels driven	1000 W	1000 W	500 W VLD: 1000 W	1000 W	1000 W

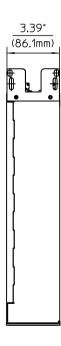
Rated output power, THD < 0.3%, 20-20 000 Hz, 4 channels driven	900 W	900 W	450 W VLD: 900 W	900 W	900 W			
Maximum bridged output power, THD = 1%, 1 kHz	-	2000 W	2000 W	2000 W/10 Ω	2000 W/20 Ω			
Maximum RMS voltage swing, THD = 1%, 1 kHz	45 V	63 V	63 V VLD: 89 V	70 V	100 V			
Power Bandwidth, THD = 1%, ref. 1 kHz, half power at rated load	10-25000 Hz			50-25000 Hz				
Voltage gain, ref. 1 kHz	32 dB	32 dB	32 dB	33 dB	36 dB			
Input Sensitivity, rated power, 1 kHz	1.1 V (+3.0 dBu)	1.55 V (+6.0 dBu)	1.55 V (+6.0 dBu)	1.55 V (+6.0 dBu)	1.55 V (+6.0 dBu			
THD at rated output power, MBW = 80 kHz, 1 kHz	< 0.05%							
IMD-SMPTE, 60 Hz, 7 kHz	< 0.05%							
DIM30, 3.15 kHz, 15 kHz	< 0.02%							
Maximum input level	+22 dBu (9.76 V _{rms})							
Crosstalk, ref. 1 kHz, at rated output power	< -80 dB							
Frequency response, ref. 1 kHz, 8 Ω load	15-30000 Hz (±1 dB)							
Input impedance, active balanced	20 kΩ							
Damping factor, $1\mathrm{kHz}$, 8Ω	> 240							
Slew rate	28 V/μs							
Signal-to-noise ratio (A-weighted)	101 dB	103 dB	103 dB	104 dB	106 dB			
Output noise, A-weighted	< -66 dBu	< -65 dBu	< -65 dBu	< -65 dBu	< -64 dBu			
Output stage topology	Class D							
Power requirements	220-240 V, 50-60 Hz or 120 V, 50-60 Hz or 100 V, 50-60 Hz							
In-rush current	27 A							
In-rush current, after five-second power cycle	14 A							
Power consumption, 1/8 maximum output power	840 W							
Protection	Audio Limiters, High Temperature, DC, HF, Short Circuit, Peak Current Limiters, Inrush Current Limiters, Turn-on Delay, Mains Circuit Breaker Protection, Mains Over/Undervoltage Protection							
Electromagnetical environment	E1, E2, E3							
Cooling	Front-to-Rear, temperature controlled fans							
Operating temperature	+5° to +40° C							
Safety class	1							
Color	Black							
Product dimensions (Height x Width x Depth)	88.1 mm x 483 mm x 420.8 mm							
Net weight	11.1 kg							

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









Dimensions

Ordering information

DC-DSA8410-100V DSA 8410 100V ENDSTUFE

DSA 8410 Class-D Amplifier, VLD, Remote optional; 4x 1000W; 2 HU, black

Order number DC-DSA8410-100V

DC-DSA8410-120V DSA 8410 120V ENDSTUFE

Class-D Amplifier, VLD, Remote opt.; 4x 1000W; 2 HU Order number **DC-DSA8410-120V**

DC-DSA8410-UNIV DSA 8410 220-240V ENDSTUFE

DSA 8410 Class-D Amplifier, VLD, Remote optional; 4x 1000W; 2 HU, black

Order number DC-DSA8410-UNIV

LML-1 HiZ-Loudspeaker Line Measuring Load (4)

Line measuring load Order number **LML-1**

RCM-810 Remote monitoring module

RCM-810 Remote Control Module for IRIS-Net

Order number RCM-810

DC-RMK15 RMK-15

Rack Mount Kit for amplifiers, Length 15,5"; 1L/1R Order number **DC-RMK15**

Germany:

Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, NY 14450

www.dynacord.com