

# DC-DSA8805-UNIV DSA 8805 220-240V ENDSTUFE



- 8 x 500 W
- Class D
- 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 high-performance 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 ( $LZ \geq 2 \Omega$ ) 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).

## Parts included

Quantity	Component
1	Power amplifier
1	Power cord
2	Output Euroblock connector 8-pole (Phoenix, IC 2,5/8-STF-5,08, 1825378, F.01U.103.369) with Euroblock connector housing (Phoenix, KGS-MSTG 2.5/8, 1783779, F.01U.103.370)
4	Input Euroblock connector 6-pole (Phoenix, MC 1,5/6-STF-3,81, 1827745, F.01U.104.179)

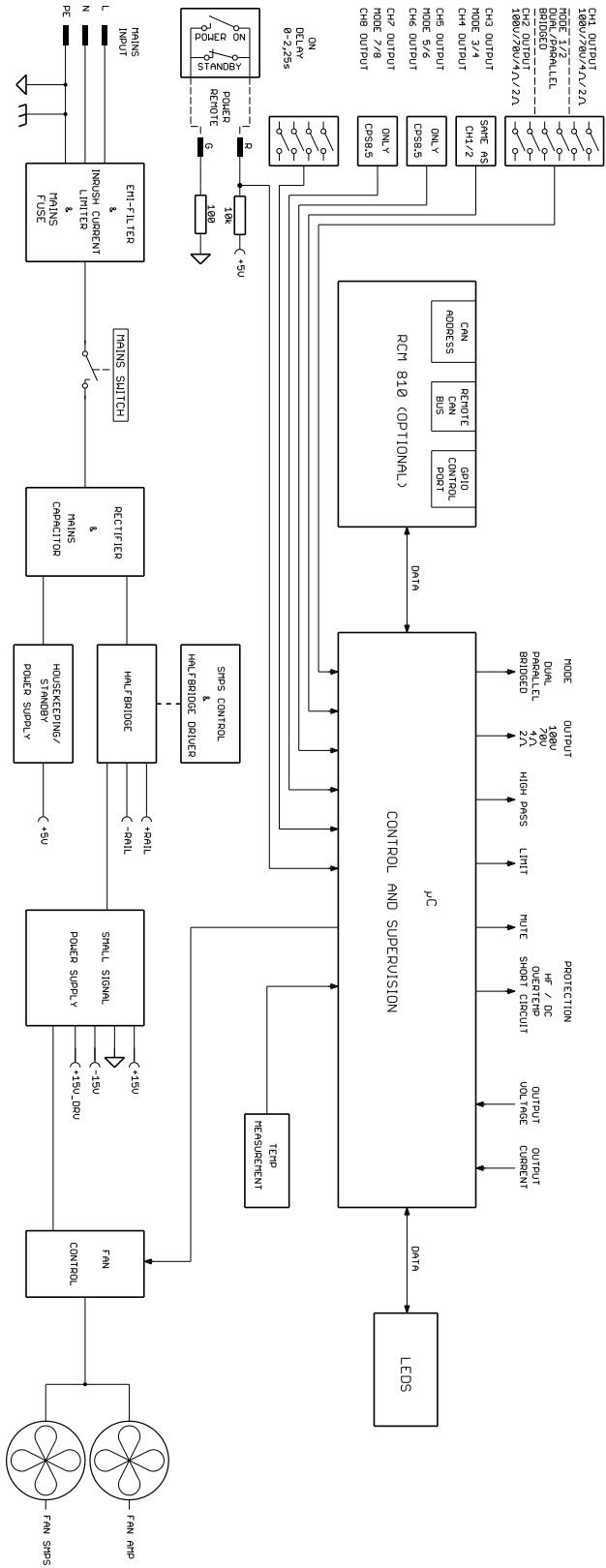
Quantity	Component
1	Power remote Euroblock connector 2-pole (Phoenix, MC 1,5/2-STF-3,81, 1827703, F.01U.103.533)
1	User manual

## Technical specifications

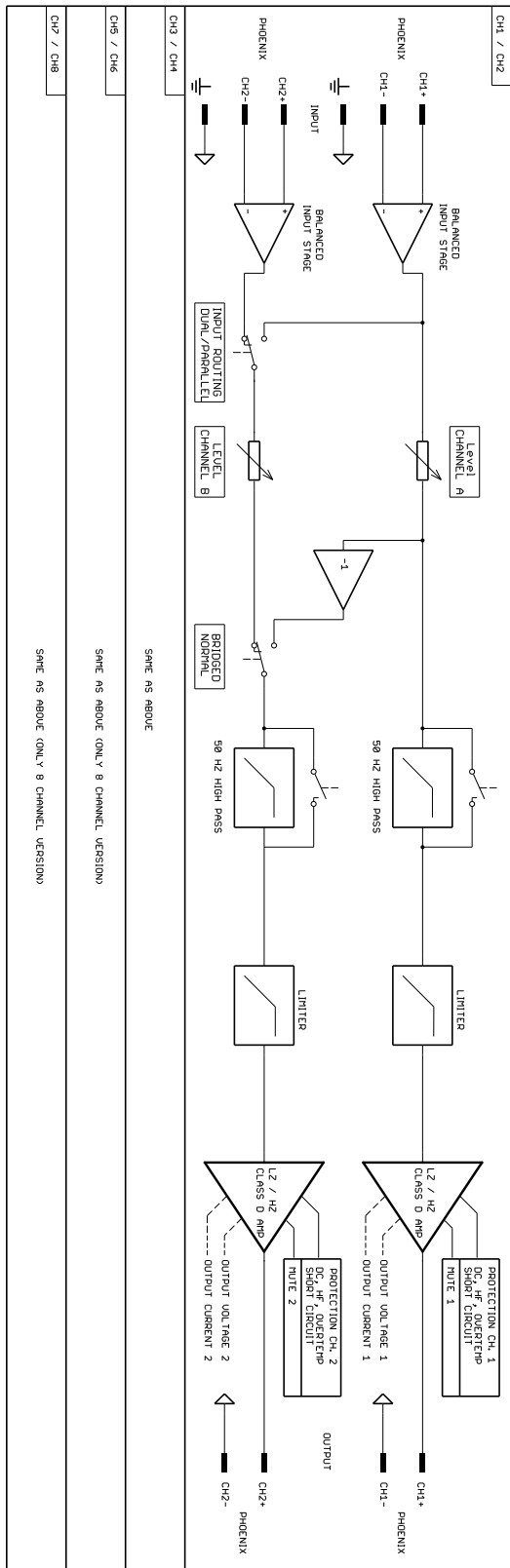
	Low impedance mode			High impedance mode	
	2 Ω	4 Ω	8 Ω	70 V/10 Ω	100 V/20 Ω
Maximum midband output power, THD = 1%, 1 kHz, 8 channels driven:	500 W	500 W	250 W VLD: 500 W	500 W	500 W
Rated output power, THD < 0.3%, 20-20 000 Hz, 8 channels driven:	450 W	450 W	225 W VLD: 450 W	450 W	450 W
Maximum bridged output power, THD = 1%, 1 kHz:	-	1000 W	1000 W	1000 W/20 Ω	1000 W/40 Ω
Maximum RMS voltage swing, THD = 1%, 1 kHz:	32 V	45 V	45 V VLD: 63 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:	0.775 V (0.0 dBu)	1.1 V (+3.0 dBu)	1.1 V (+3.0 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 <sub>rms</sub> )				
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 kHz, 8 Ω:	> 240				
Slew rate:	28 V/μs				
Signal-to-noise ratio (A-weighted)::	98 dB	100 dB	100 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				
Inrush current:	27 A				
Inrush current, after five-second power cycle:	14 A				
Power consumption, 1/8 maximum output power:	930 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				

Cooling:	Front-to-Rear, temperature controlled fans
Operating temperature:	+5° to +40° C
Safety class:	I
Color:	Black
Product dimensions (Height x Width x Depth):	88.1 mm x 483 mm x 420.8 mm
Net weight:	13.9 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.**



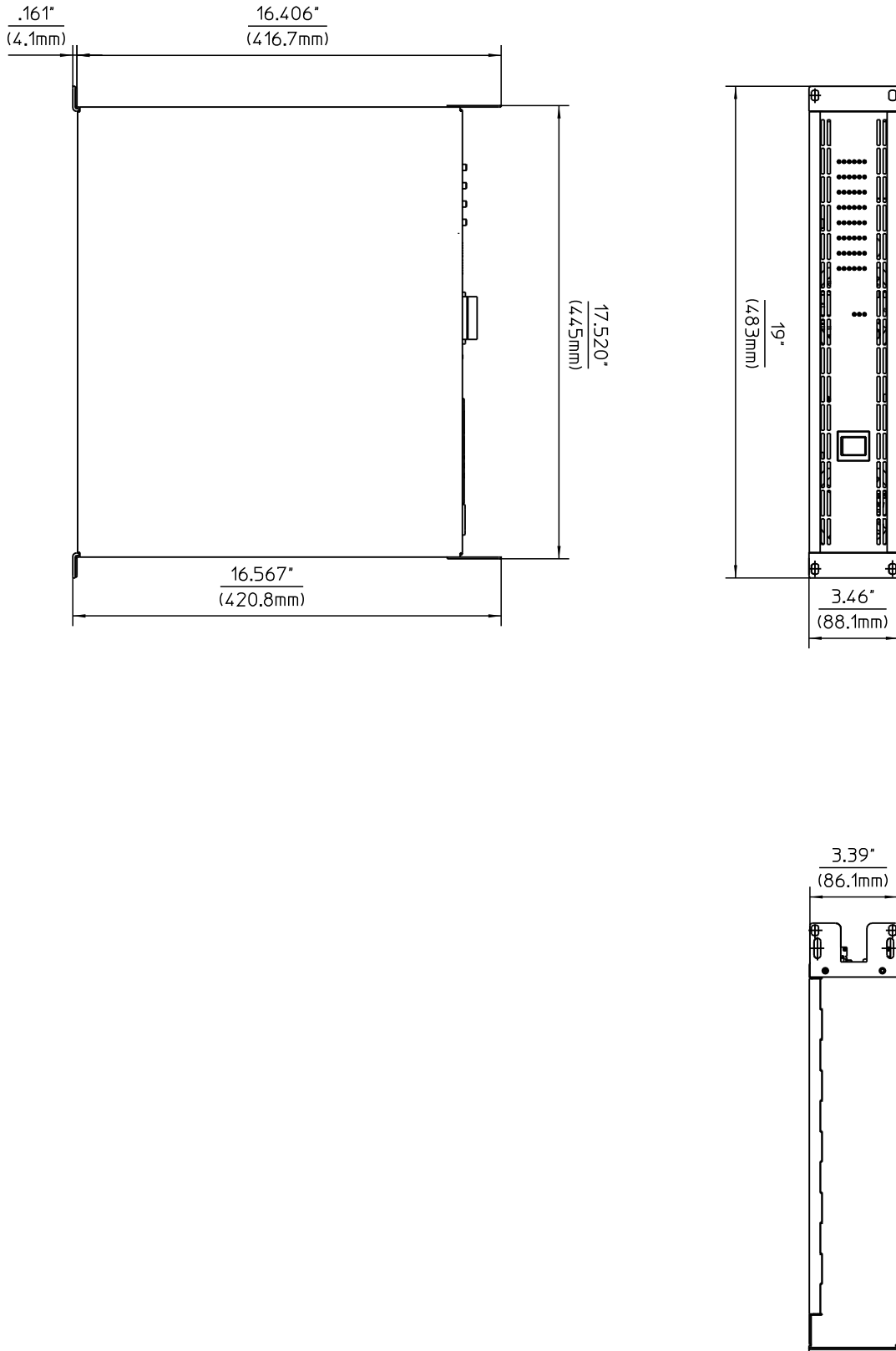
Circuit diagram



SMPE AS ABOVE (ONLY 8 CHANNEL VERSION)

SMPE AS ABOVE (ONLY 8 CHANNEL VERSION)

SMPE AS ABOVE



Dimensions

## Ordering information

### **DC-DSA8805-UNIV DSA 8805 220-240V ENDSTUFE**

DSA 8805 Class-D Amplifier, VLD, Remote optional; 8x 500W; 2HU, black

Order number **DC-DSA8805-UNIV**

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#### **Accessories**

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

Line measuring load

Order number **LML-1**

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##### **RCM-810 Remote monitoring module**

RCM-810 Remote Control Module for IRIS-Net

Order number **RCM-810**

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##### **DC-RMK15 RMK-15**

Rack Mount Kit for amplifiers, Length 15,5"; 1L/1R

Order number **DC-RMK15**

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Document Number F.01U.100.857 | Vs4 | 12. Apr 2019