

DPA 8412

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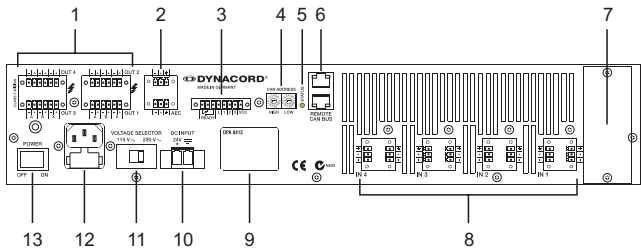
The DPA 8412 is a four-channel amplifier for the PROMATRIX 8000 system. The 19" device can be operated both via mains power or via a DC supply. The output voltage is galvanically separated and permanently monitored for earth contact. An energy-saving mode and temperature-controlled fan save power and reduce noise. They are controlled/monitored via CAN bus.

Other DPA 8412 properties:

- Class D technology – highly efficient, little heat loss, and low power consumption
- Internal monitoring with error logging – complying with the relevant national and international standards
- Easy configuration – use of IRIS-Net software
- Integrated incident switching
- Extensive protective function – protection from overload, overcontrol, and short circuit
- Monitor output
- Symmetrical audio inputs
- Line monitoring – integrated power/voltage measurement at the outputs
- A/B loudspeaker line relay

For more information, see the IRIS-Net documentation.

System overview



Number	Element
1	Power output terminals OUT
2	AEC audio input, AEC
3	CONTROL PORT with READY contact
4	CAN ADDRESS selector switch
5	STATUS LED
6	REMOTE CAN BUS connections
7	Extension slot
8	Direct audio input
9	Type label
10	DC INPUT 24 V

Number	Element
11	VOLTAGE SELECTOR
12	AC MAINS INPUT
13	POWER switch

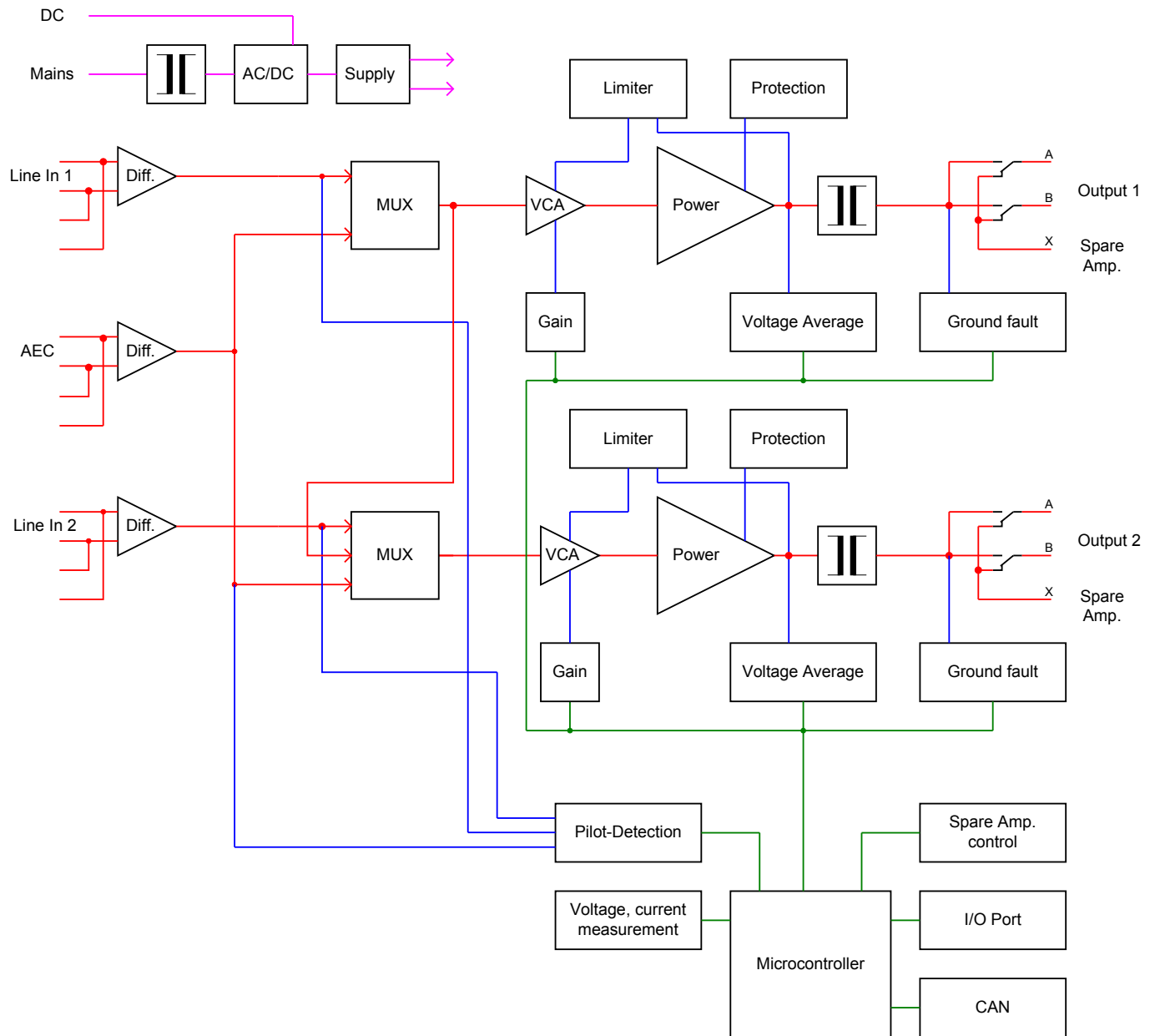
Parts included

No.	Component
1	DPA 8225
1	Mains cable
1	2-pin plug (Phoenix PC5/2-STF-7.62)
10	3-pin plug (Phoenix MC1.5/3-STF-3.81)
4	6-pin plug (Phoenix MC1.5/6-STF-3.81)
1	8-pin plug (Phoenix MC1.5/8-STF-3.81)

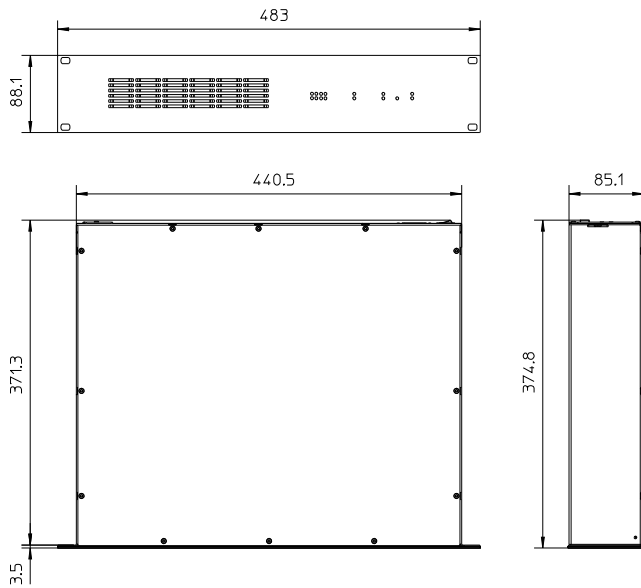
Technical specifications

Rated RMS Voltage Swing, 1 kHz, THD = 1%	50 V	70 V	100 V
Load Impedance	20 Ω	39.2 Ω	80 Ω
Maximum midband output power, 1 kHz, THD = 1.5%	135 W		
Rated output power, 1 kHz, THD < 0.5%, 2 channels driven	125 W		
Max. RMS voltage swing, 1 kHz, THD = 0.2%, without load	56 V	80 V	115 V
Voltage gain, ref. 1 kHz	30.2 dB	33.1 dB	36.2 dB
Input sensitivity, rated power @ rated load, 1 kHz	+6 dBu (1.55 V _{rms})		
THD at rated output power, MBW = 80 kHz, 1 kHz	< 0.5%		
IMD-SMPTE, 60 Hz, 7 kHz, half rated output power	< 0.6%		
DIM 30, 3.15 kHz, 15 kHz	< 0.2%		
Input level, max.	+18 dBu (6.15 V _{rms})		
Crosstalk, ref. 1 kHz at rated output power	< -80 dB		
Frequency response, ref. 1 kHz, rated load	50 Hz (-3 dB) to 20 kHz (-6 dB)		
Input impedance, active balanced	20 k Ω		
Damping factor, 1 kHz, rated load	> 5		
Slew rate	14 V/ μ s		
Signal to noise ratio, A-weighted	> 100 dB		
Output noise, A-weighted	< -58 dBu		

CAN port	10 to 500 kBit/s, 2 x RJ-45
Control port	1 x 8-pin connector 3 control inputs/outputs (max. 60 V / 1 A) 2 reference outputs (15 V/100 mA and GND/100 mA) 1 ready/fault output (max. 30 V / 1 A)
Output stage topology	Class-D, transformer, floating
Power requirements	115 V/230 V AC (-10%/+6%), 50 to 60 Hz or 24 V DC (-10%/+30%)
Power consumption, AC and DC	See owner's manual
Inrush current	< 20 A
Inrush current, after five-second power cycle	< 7 A
Mains fuse	230 V (-10%/+6%): T5A 115 V (-10%/+6%): T10A
Monitor	
• Rated output voltage	4.5 dBu (1.3 V)
• Rated load impedance	600 Ω
Ground fault	R $\leq$ 50 k Ω
Protection	Audio limiter, high temperature, DC, short circuit, mains over/undervoltage protection, DC supply undervoltage protection, inrush current limiter, ground fault
Cooling	Front-to-rear, temperature-controlled fans
Operating temperature	-5 °C to 45 °C
Safety class	Class I
Electromagnetic environment	E1, E2, E3
Product dimensions (Width by Height by Depth)	19", 2HE, 483 by 88.1 by 374.8 mm
Net weight	18 kg



Block diagram (diagram shows DPA 8225)



Dimensions

Ordering information

DPA 8412

Order number **F.01U.121.864**

Represented by:

Germany:

EVI Audio GmbH
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