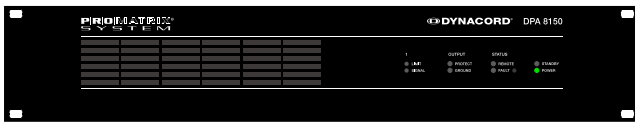


# DPA 8150

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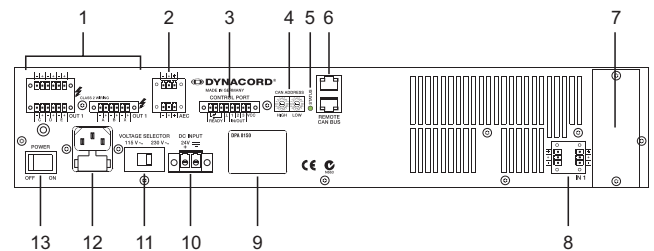
The DPA 8150 is a single-channel amplifier for the PROMATRIX 8000 system. The 19” device can be operated both via mains power or via a DC supply. The output voltage is galvanically separated and permanently monitored for earth contact. An energy-saving mode and temperature-controlled fan save power and reduce noise. They are controlled/monitored via CAN bus.

Other DPA 8150 properties:

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

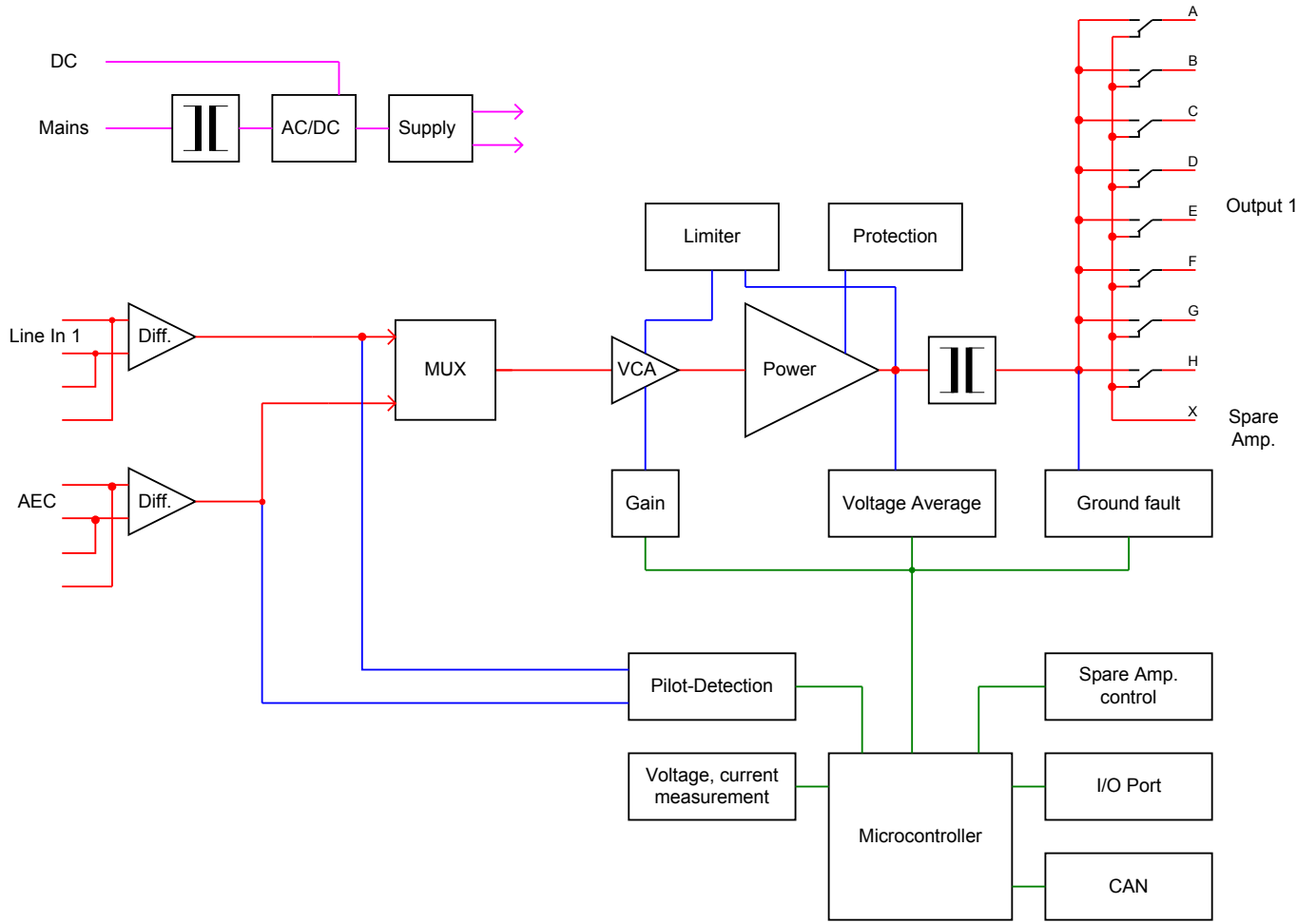
| No. | Component                             |
|-----|---------------------------------------|
| 1   | DPA 8150                              |
| 1   | Mains cable                           |
| 1   | 2-pin plug (Phoenix PC5/2-STF-7.62)   |
| 4   | 3-pin plug (Phoenix MC1.5/3-STF-3.81) |
| 3   | 6-pin plug (Phoenix MC1.5/6-STF-3.81) |
| 1   | 8-pin plug (Phoenix MC1.5/8-STF-3.81) |

## Technical specifications

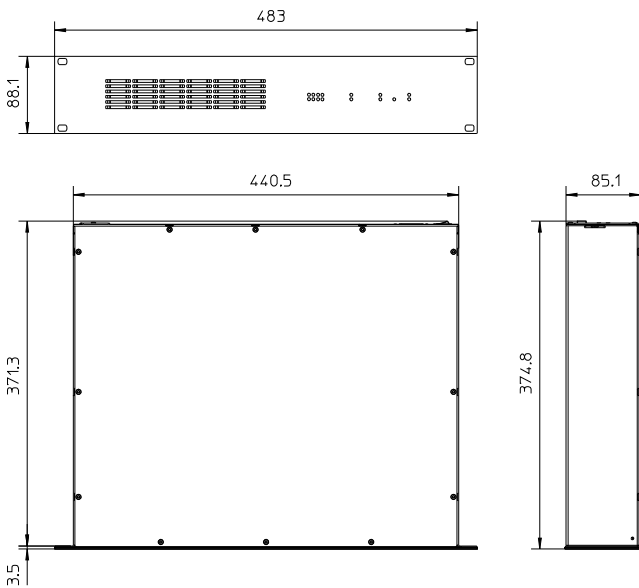
|  |                                 |         |         |
|--|---------------------------------|---------|---------|
| Rated RMS Voltage Swing, 1 kHz, THD = 1%                 | 50 V                            | 70 V    | 100 V   |
| Load Impedance   | 5 Ω                             | 9.8 Ω   | 20 Ω    |
| Maximum midband output power, 1 kHz, THD = 1.5%          | 500 W                           |         |         |
| Rated output power, 1 kHz, THD < 0.5%, 2 channels driven | 500 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 Vrms)              |         |         |
| THD at rated output power, MBW = 80 kHz, 1 kHz           | < 0.5%                          |         |         |
| IMD-SMPTE, 60 Hz, 7 kHz, half rated output power         | < 1.0%                          |         |         |
| DIM 30, 3.15 kHz, 15 kHz                                 | < 0.4%                          |         |         |
| Input level, max.  | +18 dBu (6.15 Vrms)             |         |         |
| Frequency response, ref. 1 kHz, rated load               | 50 Hz (-3 dB) to 20 kHz (-6 dB) |         |         |
| Input impedance, active balanced                         | 20 kΩ                           |         |         |
| Damping factor, 1 kHz, rated load                        | > 5                             |         |         |
| Slew rate  | 24 V/μs                         |         |         |
| Signal to noise ratio, A-weighted                        | > 104 dB                        |         |         |
| Output noise, A-weighted                                 | < -66 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                                | 12 A  |
| Inrush current, after five-second power cycle | 7 A   |
| Mains fuse                                    | 230 V (-10%/+6%): T5A<br>115 V (-10%/+6%): T10A   |
| Monitor                                       | <ul style="list-style-type: none"> <li>Rated output voltage: 4.5 dBu (1.3 V)</li> <li>Rated load impedance: 600 Ω</li> </ul>                                    |
| Ground fault                                  | R < 50 kΩ   |
| 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 x 88.1 x 374.8 mm   |
| Net weight                                    | 16 kg   |



Block diagram



Dimensions

## Ordering information

**DPA 8150**

Order number **F.01U.121.860**

**Represented by:**

**Germany:**

EVI Audio GmbH  
Sachsenring 60  
94315 Straubing  
Germany

[www.dynacord.com](http://www.dynacord.com)

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