



Technische Informationen  
Engineering Data Sheet

## Q Series

Professional Power Amplifiers

### Beschreibung

Die Endstufen der Q-Serie von Electro-Voice bieten eine hohe, stabile Ausgangsleistung bei hohem Wirkungsgrad auf hohem Performance-Niveau. Sie eignen sich somit ideal als Antrieb für eine Vielzahl von Mobil- und Clubsystemen, wie z. B. für Lautsprecher der ZX, Tour-X und Phoenix Familien.

Weitere Q Series Eigenschaften:

- **Umfangreiche Schutzschaltungen** - Schutz vor Überhitzung, Überlast, Kurzschluss, Hochfrequenz und Gleichspannung am Ausgang
- **LPN-Filter** - zuschaltbare Optimierung von Frequenzgang und Einschwingverhalten der Lautsprecher

### Description

Electro-Voice Q 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 mobile and club sound systems like e.g. ZX, Tour-X and Phoenix loudspeaker families.

Additional Q series features:

- **Comprehensive protection system** - protection against overheating, overload, short circuit, HF and DC
- **LPN filter** - switchable frequency and phase response correction of connected loudspeakers

### Part Number

|               |  | 100 V         | 120 V         | 230 V         | 240 V         |
|---------------|--|---------------|---------------|---------------|---------------|
| <b>Q44-II</b> | <b>Professional Power Amplifier 2 x 450 W</b>  | F.01U.076.833 | F.01U.076.825 | F.01U.076.821 | F.01U.076.829 |
| <b>Q66-II</b> | <b>Professional Power Amplifier 2 x 600 W</b>  | F.01U.076.834 | F.01U.076.826 | F.01U.076.822 | F.01U.076.830 |
| <b>Q99</b>    | <b>Professional Power Amplifier 2 x 900 W</b>  | F.01U.076.835 | F.01U.076.827 | F.01U.076.823 | F.01U.076.831 |
| <b>Q1212</b>  | <b>Professional Power Amplifier 2 x 1200 W</b> | F.01U.076.836 | F.01U.076.828 | F.01U.076.824 | F.01U.076.832 |

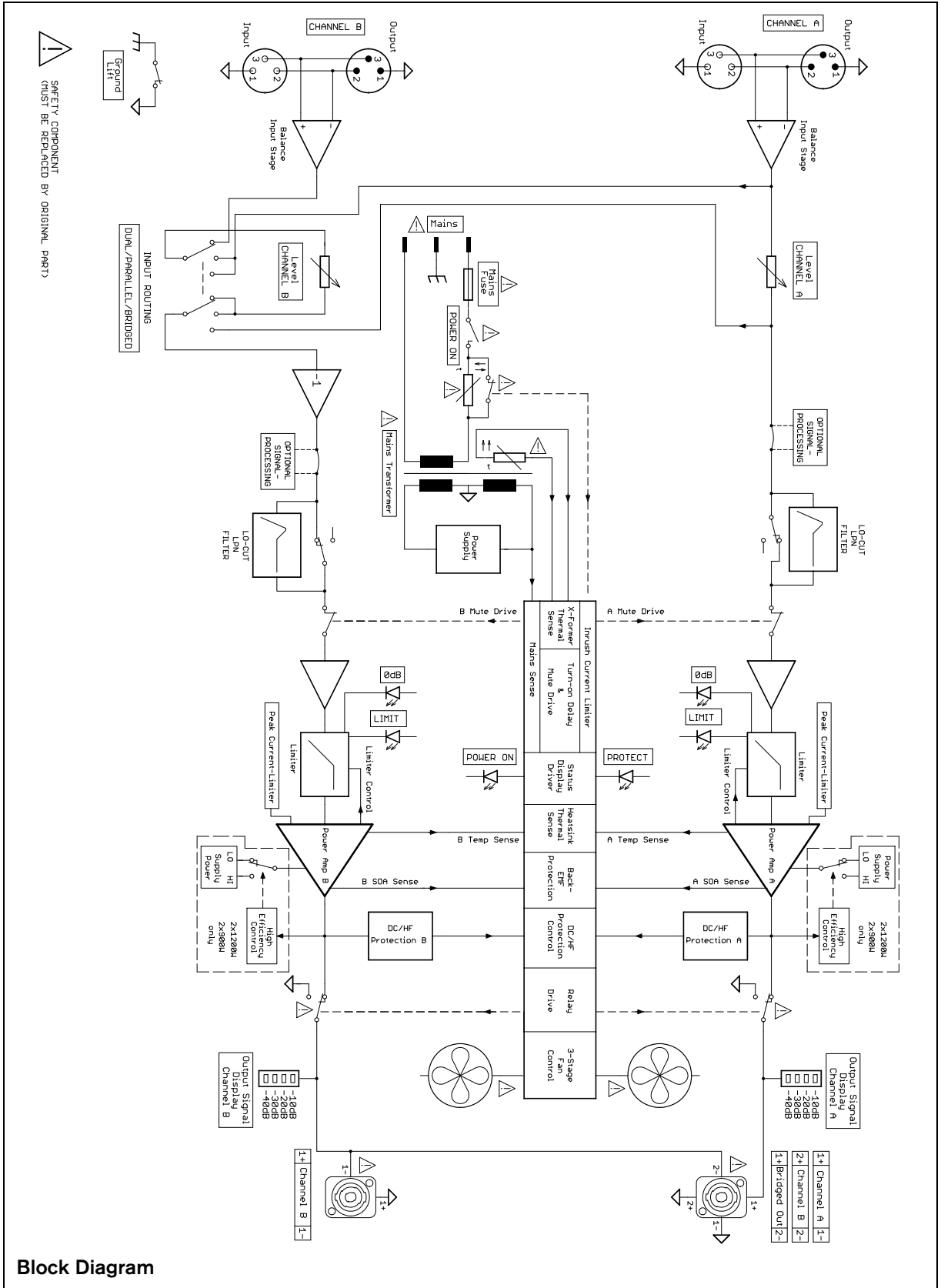
### Inhalt

- 1 x Endstufe
- 1 x Bedienungsanleitung
- 1 x Garantiekarte mit Sicherheitshinweisen
- 1 x Netzkabel
- 4 x Standfuß

### Contents

- 1 x Power Amplifier
- 1 x Owner's Manual
- 1 x Warranty certificate including safety instructions
- 1 x Mains Cord
- 4 x Foot Stand





**Block Diagram**



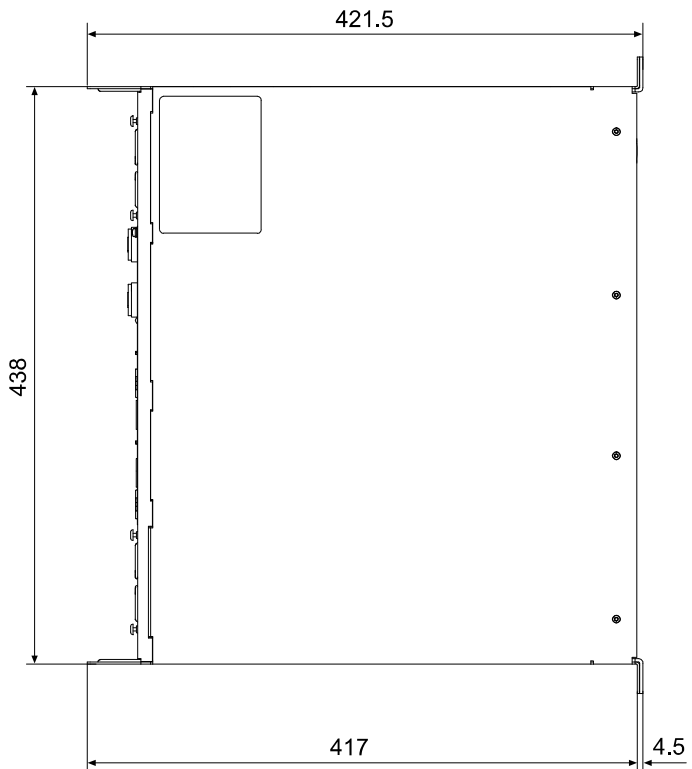
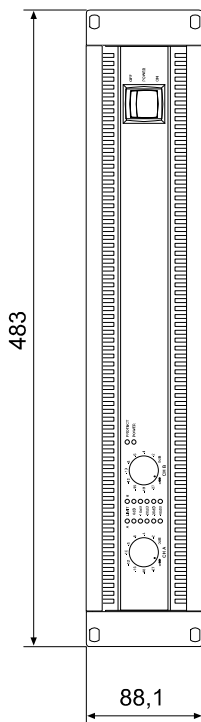
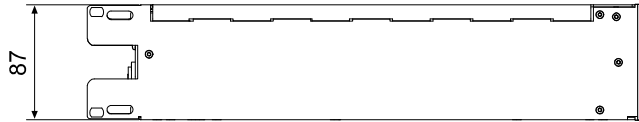
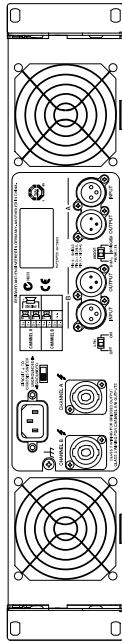
## Technical Specifications

|   | Q44-II  |        |       | Q66-II  |        |        | Q99   |        |        | Q1212   |        |        |
|---|---|--------|-------|---|--------|--------|---|--------|--------|---|--------|--------|
| Load Impedance  | 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><br>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><br>THD < 0.1%, 20 Hz...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><br>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><br>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><br>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><br>THD = 1%, 1 kHz                   | 55.3 V  |        |       | 65.1 V  |        |        | 78.8 V  |        |        | 90.6 V  |        |        |
| <b>Power Bandwidth</b><br>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><br>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><br>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><br>ref. 1 kHz, at rated output power                 | < -80 dB  |        |       |   |        |        |   |        |        |   |        |        |
| <b>Frequency Response</b> , ref. 1 kHz                                | 10 Hz...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/μs   |        |       | 26 V/μs                                       |        |        | 27 V/μs                                       |        |        | 30 V/μs                                       |        |        |
| <b>Signal to Noise Ratio Amplifier</b><br>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...60 Hz (factory configured)  |        |       |   |        |        |   |        |        |   |        |        |
| <b>Power Consumption</b><br>1/8 maximum output power @ 4 Ω            | 550 W   |        |       | 700 W   |        |        | 700 W   |        |        | 850 W   |        |        |
| <b>Power Consumption</b><br>Rated output power @ 8 Ω                  | 670 W   |        |       | 850 W   |        |        | 1280 W  |        |        | 1690 W  |        |        |
| <b>Mains Fuse</b>   | 240 V / 230 V: T10AH;<br>120 V / 100 V: T20AH   |        |       | 240 V / 230 V: T12AH;<br>120 V / 100 V: T25AH |        |        | 240 V / 230 V: T15AH;<br>120 V / 100 V: T25AH |        |        | 240 V / 230 V: T15AH;<br>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 (W x H x D), mm</b>                                     | 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>  | LPN, switchable   |        |       |   |        |        |   |        |        |   |        |        |
| <b>Optional</b>   | Rear-rackmount D113223 (RMK-15)   |        |       |   |        |        |   |        |        |   |        |        |

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



## Electro-Voice

12000 Portland Avenue South, Burnsville, MN 55337  
 Phone: 952/884-4051, Fax: 952/884-0043  
[www.electrovoice.com](http://www.electrovoice.com)

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For warranty repair or service information, contact the Service Repair department at:  
**800/685-2606**

For technical assistance, contact Technical Support at: **866/78AUDIO**

Specifications subject to change without notice.