Technical Data C Series: Installation-Dedicated Power Amplifiers



- Four channels in 2U High channel density reduces space requirements and installation time
- High continuous output power of 250 W per channel at 70 V, 4 ohms, 8 ohms, and 16 ohms*
- All channels individually selectable for Io-Z or hi-Z Loudspeakers (2 ohm – 16 ohm) and distributed systems can be connected to the same unit
- Bridged operation Channel pairs bridgeable for increased output or for driving 100 V systems
- Patented output stage based on Class D topology
- High efficiency for lower thermal stress

10:4X

An Installation Amplifier without Compromise

Lab.gruppen amplifiers have earned an enviable worldwide reputation for sonic excellence and rock-solid durability in touring sound applications. These same qualities are now available for a broad range of installed sound applications in the C 10:4X amplifier. By offering an unmatched combination of channel density, operating efficiency and configuration flexibility, the C 10:4X presents convincing performance and cost-saving advantages. Applications include primary systems for theme parks, shopping malls, airports, hotels and restaurants as well as auxiliary systems for performance venues, houses of worship and numerous other installed sound applications.

To achieve higher channel density without compromising performance, Lab.gruppen engineers developed a new output stage design. Based on a patented Class D circuit topology, these output stages produce sustained high power levels with very low distortion while maintaining efficiency levels of near 90%. A new universal switching power supply employs Power Factor Correction (PFC) to stabilize current draw, and it accepts any mains voltage from 100 - 240 V (+/- 10%) @ 50 Hz or 60 Hz through the appropriate IEC cord.

The C 10:4X includes unique features which enable each unit – or even each channel – to be configured for a specific application or load condition. Input gain is selectable in two-channel groups, and a 35 Hz high pass filter may be inserted. All channels are bridgeable in pairs, and Lab.gruppen's exclusive Voltage Peak Limiter (VPL) feature allows each channel to be individually optimized for the reactive characteristics of the connected load.

- General Purpose Input/Output (GPIO) Compatible with third-party control systems
- NomadLink[®] network ready
- Universal Power Factor Corrected PSU with IEC inlet
- Efficient cooling Dual variable speed fans and parallel airflow over output devices provide uniform cooling
- Comprehensive circuit protection and fault indication
- Phoenix-style input connectors and barrier strip output connectors

For comprehensive remote monitoring and control, the C 10:4X includes NomadLink® network ports for connecting to an optional NLB 60E NomadLink® Bridge & Network Controller and an Ethernetlinked PC. With NomadLink®, key amplifier parameters are displayed via DeviceControl software, and remote control of channel mute and power on/off is under network control. Alternatively, the GPIO facilities allow access to key amplifier functions via third-party remote control systems.

To ensure a long and trouble-free service life, the C 10:4X incorporates extensive features to safeguard internal circuits and connected loads. Protection and warning circuits prevent damage or service interruptions due to excessive current, DC at output, over-temperature, non-musical VHF (very high frequencies), and open load conditions. In addition, soft-start and PSU current limiting protect the mains supply from interruptions due to tripped circuit breakers or blown mains fuses.

Applications

- Auditoriums
- Performing Arts Centers
- Convention Centers
- Stadiums and Arenas
- Theme Parks
- Hotels
- Houses of Worship
- Restaurants
- ▶ Clubs
 - Educational Establishments
 - Boardrooms
- ► Museums
- Offices
- Shopping Malls
 Transportation Facilities



* Maximum continuous output power, all channels driven, VPL set at 100 V and Gain set at 32 dB



Specifications C 10:4X

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THD 20 Hz / 20 KHz for 1 W <0.1%	Bridged per ch.	500 W	500 W	250 W	n.r.	500 W (140 Vrms / 200 V peak)	
THD 20 Hz / 20 KHz for 1 W <0.1%							
THD at 14b zero dipping <0.05%	Performance with Gain: 32 dB and VPL: 100 V						
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Note 1): Automatic -6 dB gain compensation when bridging channels. Ch.'s A+B and/or C+D, can be bridged individually.

Note 2): PAL can reduce the maximum output power to keep the power supply operating safely, and/or to prevent excessive current draw tripping the mains breaker.

Refer to Operation Manual.

Note 3): For sine waves, peak voltage output values translate to Vrms with the formula V/1.41 = Vrms. E.g. 100 V peak equals app. 70 Vrms. Hence, outputs can be set for high-impedance loads without requiring a transformer.

All specifications are subject to change without notice.



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