

Ottocanali 8K4



8-Channel High-Performance Power Amplifier for Lo-Z & Hi-Z Installations



- Touring
- Installation

8 lo-Z
hi-Z
channels



- ▶ Multi-zone venues, medium to large scale installations
- ▶ Themed entertainment, amusement parks, shopping malls
- ▶ Cruise ships
- ▶ Stadiums, arenas
- ▶ Houses of worship
- ▶ Theaters, auditoriums, concert halls
- ▶ Main systems, central or distributed, lo-Z/hi-Z
- ▶ Convention centers

The **Ottocanali 8K4**: extremely flexible and reliable. It offers a wide range of system control and monitoring functions as well as sound shaping options, a total of up to 8,000 W output power over 8 channels for lo-Z or distributed line systems all neatly packed into a double rack unit. As 'stand-alone' unit the **Ottocanali 8K4** fits any venue. Excellent sound quality and ample output power stem from Powersoft's unique approach to Class D amplification, making the **Ottocanali 8K4** the ideal main system in any venue where performance is priority.

Powersoft's legendary efficiency saves valuable energy, keeping both operational cost and 'carbon footprint' at a minimum: the **Ottocanali 8K4** shines with outstandingly low power consumption and heat dissipation; this dramatically reduces costs from the AC mains supply and air conditioning/cooling systems – not to mention the benefits to the environment for a greener planet.

8-channel mode				mono-bridged mode	
2 Ω / Ch	4 Ω / Ch	8 Ω / Ch	70 V-100 V	4-8 Ω / Ch pair	16 Ω / Ch pair
850 W	1000 W	600 W	1000 W	1700-2000 W	1200 W

Max output power, all channels driven

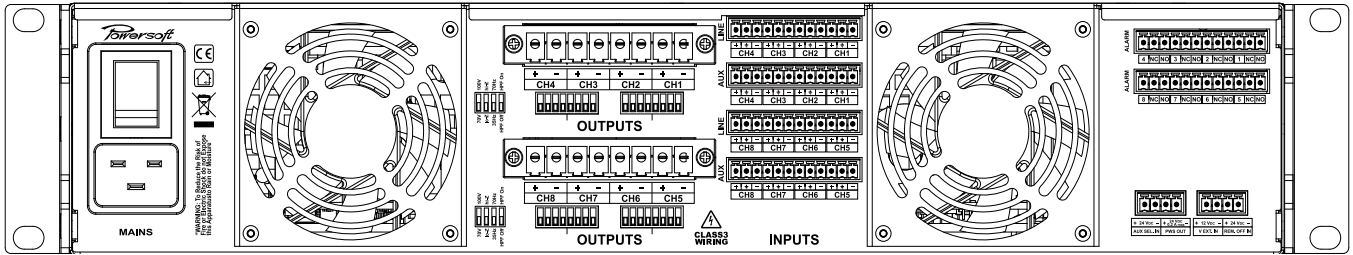
- ✓ **Legendary Powersoft efficiency:**
 - ▶ Green Audio Power®: minimal 'carbon footprint' and operational cost of electricity (Energy Star qualification pending); additional 'Energy Save' function
 - ▶ Compact and space saving: 2 RU, and standard depth 360 mm / 14.2"
- ✓ **Driving low impedance and distributed line systems:**
 - ▶ Mixed lo-Z/hi-Z systems possible
 - ▶ Bridged mode low impedance
 - ▶ Up to 28 different output configurations possible
- ✓ **Unique Powersoft technology for efficient, reliable, great sounding performance:**
 - ▶ Two universal switch mode power supplies with PFC (Power Factor Correction) each independently powering a set of 4 channels
 - ▶ Fixed frequency switch mode amplifier output stages
 - ▶ Patented amplifier output filters with ripple cancellation network
- ✓ **Maximize performances, minimize consumption:**
 - ▶ Patented SRM (Smart Rails Management) technology allows to maximize the efficiency of the system and drastically reduce power consumption at any load and usage condition.
- ✓ **Outstanding performance and operational safety:**
 - ▶ Excellent sonic quality by design, including amp clip limiters and patented ripple cancellation network
- ✓ **Practical & versatile:**
 - ▶ Directly driving either low impedance loads or 70 V/100 V lines
 - ▶ Capable of driving 2 Ω loads
 - ▶ A dipswitch set for each channel allowing selection lo-Z or hi-Z (70 V or 100 V) modes, with or without HPF filters set to either 35 Hz or 70 Hz
 - ▶ A full set of auxiliary inputs for all channels granting redundancy for security purposes
- ✓ Front panel safety cover hiding output attenuators and 'Energy Save' switch
- ✓ Channel specific independent set of alarms triggered by potentially dangerous faults or generally unsafe operation conditions
- ✓ All signal/control connectors Phoenix industry standard
- ✓ Front-to-rear airflow cooling with variable-speed fan, temperature controlled
- ✓ **Full protection circuitry:**
 - ▶ over/under AC voltage, DC
 - ▶ troublesome signals (clipping, VHF, long-term RMS)
 - ▶ thermal
 - ▶ short circuit
 - ▶ mute at power on/off
- ✓ Full four years warranty



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8-Channel High-Performance Power Amplifier for Lo-Z & Hi-Z Installations



Specifications

General															
Number of channels	8 Mono-bridgeable per channel pair														
Max Output power	8-channel mode														
	mono-bridged mode														
(all channels driven)	<table border="1"> <tr> <td>2 Ω / Ch</td> <td>4 Ω / Ch</td> <td>8 Ω / Ch</td> <td>70 V</td> <td>100 V</td> <td>4-8 Ω / Ch pair</td> <td>16 Ω / Ch pair</td> </tr> <tr> <td>850 W</td> <td>1000 W</td> <td>600 W</td> <td>1000 W</td> <td>1000 W</td> <td>1700-2000 W</td> <td>1200 W</td> </tr> </table>	2 Ω / Ch	4 Ω / Ch	8 Ω / Ch	70 V	100 V	4-8 Ω / Ch pair	16 Ω / Ch pair	850 W	1000 W	600 W	1000 W	1000 W	1700-2000 W	1200 W
2 Ω / Ch	4 Ω / Ch	8 Ω / Ch	70 V	100 V	4-8 Ω / Ch pair	16 Ω / Ch pair									
850 W	1000 W	600 W	1000 W	1000 W	1700-2000 W	1200 W									
Max output voltage	90 V _{peak} 100 V _{peak} 141 V _{peak} 180 V _{peak}														
Max output current	23 A _{peak} 20 A _{peak} 14 A _{peak} 23 A _{peak}														
AC Mains Power															
Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)														
Nominal power requirements	AC 100 V - 240 V, 50/60 Hz with PFC														
Operating range	AC 90 V - 264 V														
Consumption / current draw	@ 230 V @ 115 V														
Idle	35 W 0.8 A 30 W 0.6 A														
1/8 of max power @ 4 Ω	1425 W 6.6 A 1425 W 12.6 A														
1/4 of max power @ 4 Ω	2760 W 12.3 A 2800 W 24.5 A														
Thermal															
Environmental operating temperature	0° - 45° C / 32° - 113° F														
Thermal dissipation	Fan variable speed, temperature controlled front to rear airflow														
	230 V 115 V														
Idle	118 BTU/h 30 kcal/h 103 BTU/h 26 kcal/h														
1/8 of max power @ 4 Ω	1504 BTU/h 379 kcal/h 1480 BTU/h 373 kcal/h														
1/4 of max power @ 4 Ω	2722 BTU/h 686 kcal/h 2793 BTU/h 704 kcal/h														
Audio															
Gain	32 dB														
Frequency response	20 Hz - 20 kHz (±0.5 dB) @ 1 W, 8 Ω														
S/N ratio (amplifier section)	>107 dB (20 Hz - 20 kHz A weighted)														
Noise floor	-70 dBV (20 Hz - 20 kHz, A weighted)														
Crosstalk separation	> 65 dB @ 1 kHz (4 Ω)														
Input sensitivity @ 8 Ω	1.94 V _{RMS} / +8 dBu for max out power – 1.6 V _{RMS} / +6.3 dBu for 1000W power														
Maximum input level	6 V _{RMS} / +17.8dBu														
Input impedance	10 kΩ balanced														
THD+N / DIM100	< 0.08% (typically <0.05%) @ 8 Ω														
Slew rate	50 V/μs @ 8 Ω, input filter bypassed														
Damping factor	> 10000 @ 100 Hz (lo-Z)														
Front Panel															
Indicators	7 multifunction LEDs per channel: 4 x green, 2 x yellow, 1 x red														
Controls	Pushbutton enables 24 V DC at back PWS OUT connector (can also toggle LINE/AUX inputs). 8 output attenuators, energy save mode activation (per channel pair) DIP switch														
Maintenance	Dust filter foam behind frontal silver colored panels														
Rear Panel															
Controls	4 DIP switches for each channel (allows selection of 70 V/100 V modes, hi-Z/lo-Z modes, 35 Hz/70 Hz LPF, HPF on/off)														
Input / Output connectors	4 x 12 pin Phoenix MC 1.5/12-ST-3.81 1803675 / 2 x 8 pin DFK-PC 4/8-G-7.62 1861219														
Fault alarm connectors	2 x 12 pin Phoenix MC 1.5/12-ST-3.81 1803675														
Aux command (triggering aux inputs) and aux voltage for remote on/off switching	4 pin Phoenix MC 1.5/4-ST-3.81 1803594														
Aux front switch enabling and external 24 V DC (0.2 A) auxiliary supply	4 pin Phoenix MC 1.5/4-ST-3.81 1803594														
AC mains	IEC C19/22.2 20 A, AC mains cord with 20 A 3-pin plug 20 A for US, IEC Schuko 16 A for every other nation														
Construction															
Dimensions	W 483 mm / 19", H 89 mm / 3.5" / 2 RU, D 360 mm / 14.2"														
Weight	14 kg / 30.8 lb														

Data is subject to change without notice.
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