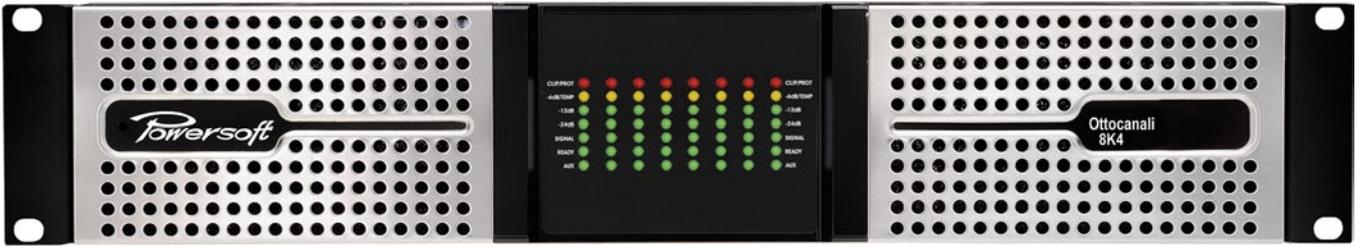# Ottocanali 8K4

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

Powersoft

☐ Touring
☑ Installation

8 lo-Z
hi-Z
channels

SRM • Green Audio Power • **PFC**

- ▶ 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

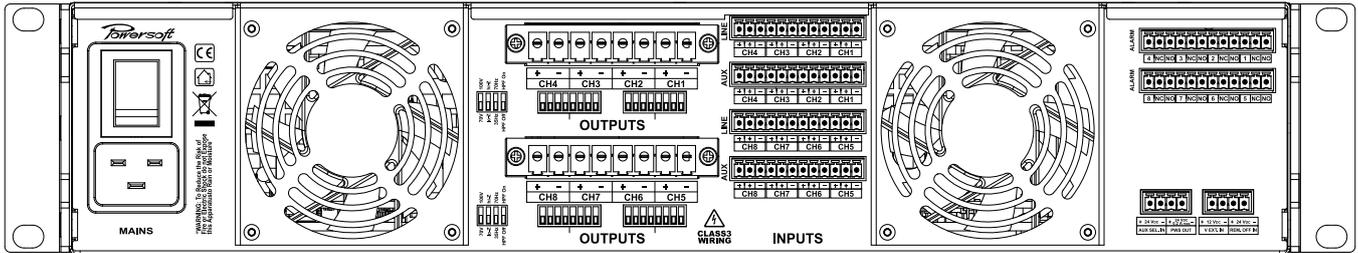| 8-channel mode				mono-bridged mode	
2 Ω / Ch	4 Ω / Ch	8 Ω / Ch	70 V-100 V	4-8 Ω / Ch pair	16 Ω / Ch pair
850 W	1000 W	600 W	1000 W	1700-2000 W	1200 W

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

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.

Powersoft

Ottocanali 8K4

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	
	2 Ω / Ch	4 Ω / Ch	8 Ω / Ch	70 V	100 V	4-8 Ω / Ch pair	16 Ω / Ch pair
(all channels driven)	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 1000 W 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 × green, 2 × yellow, 1 × 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 selction of 70 V/100 V modes, hi-Z/lo-Z modes, 35 Hz/70 Hz LPF, HPF on/off)
Input / Output connectors	4 × 12 pin Phoenix MC 1.5/12-ST-3.81 1803675 / 2 × 8 pin DFK-PC 4/8-G-7.62 1861219
Fault alarm connectors	2 × 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