

Ottocanali 12K4

Powersoft

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



- Touring
- Installation

8 lo-Z
hi-Z
channels

SRM



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

The **Ottocanali 12K4**: 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 12,000 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 12K4** fits any venue. Excellent sound quality and ample output power stem from Powersoft's unique approach to Class D amplification, making the **Ottocanali 12K4** 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 12K4** 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
1000 W	1500 W	850 W	1500 W	2200-3000 W	1600 W

Max output power, all channels driven

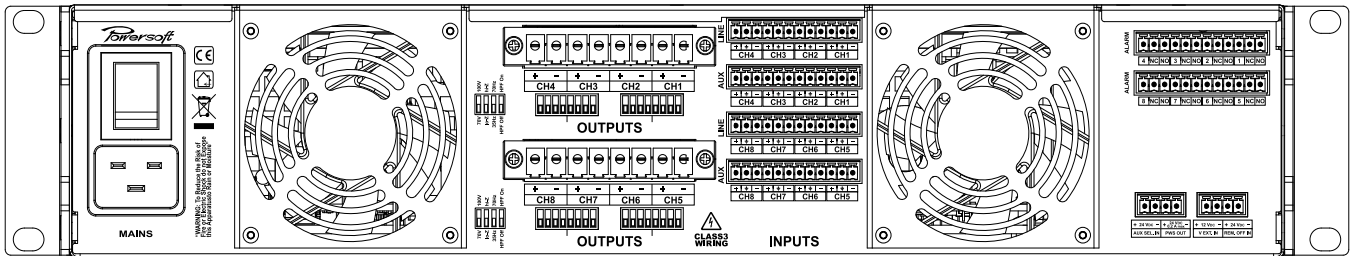
- ✓ **Legendary Powersoft efficiency:**
 - ▶ Green Audio Power®: minimal 'carbon footprint' and operational cost of electricity (Energy Star qualification pending); additional 'Energy Save' function
 - ▶ Compact and space saving: 2 RU, and standard depth 360 mm / 14.2"
- ✓ **Driving low impedance and 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

Powersoft

Ottocanali I2K4



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



Specifications

General		8 Mono-bridgeable per channel pair						
Number of channels		8-channel mode						
Max Output power		8-channel mode				mono-bridged mode		
(all channels driven)		2 Ω / Ch	4 Ω / Ch	8 Ω / Ch	70 V	100 V	4-8 Ω / Ch pair	16 Ω / Ch pair
Max output power		1000 w	1500 W	850 W	1500 W	1500 W	2200-3000 W	1600 W
Max output voltage			150 V _{peak}		100 V _{peak}	141 V _{peak}		300 V _{peak}
Max output current			54 A _{peak}		30 A _{peak}	21 A _{peak}		54 A _{peak}
AC Mains Power		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		2075 W		9.7 A		2115 W		18.5 A
1/4 of max power @ 4 Ω		4150 W		18.6 A		4230 W		36 A
Thermal		0° - 45° C / 32° - 113° F						
Environmental operating temperature		Fan variable speed, temperature controlled front to rear airflow						
Thermal dissipation		230 V			115 V			
Idle		118 BTU/h		30 kcal/h		103 BTU/h		26 kcal/h
1/8 of max power @ 4 Ω		1937 BTU/h		488 kcal/h		2141 BTU/h		540 kcal/h
1/4 of max power @ 4 Ω		3874 BTU/h		977 kcal/h		4283 BTU/h		1080 kcal/h
Audio		32 dB						
Gain								
Frequency response		20 Hz - 20 kHz (±0.5 dB) @ 1 W, 8 Ω						
S/N ratio (amplifier section)		>109 dB (20 Hz - 20 kHz A weighted)						
Noise floor		-65 dBV (20 Hz - 20 kHz, A weighted)						
Crosstalk separation		> 70 dB @ 1 kHz (4 Ω)						
Input sensitivity @ 8 Ω		1.94 VRMS/ +8 dBu for max out power – 1.6 VRMS/ +6.3 dBu for 1000W power						
Maximum input level		6 VRMS/ +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		7 multifunction LEDs per channel: 4 x green, 2 x yellow, 1 x red						
Indicators								
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		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)						
Controls								
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		W 483 mm / 19", H 89 mm / 3.5" / 2 RU, D 360 mm / 14.2"						
Dimensions								
Weight		14 kg / 30.8 lb						

Data is subject to change without notice.
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