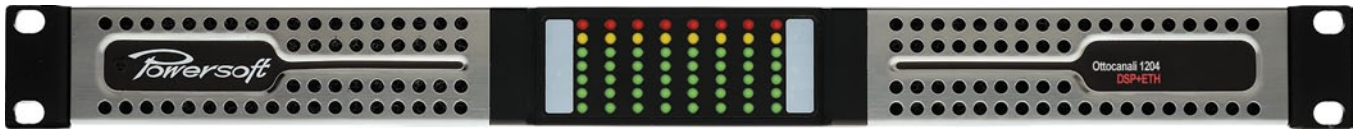


Ottocanali I204 DSP+ETH



8-Channel Power Amplifier with DSP and Ethernet for Lo-Z & Hi-Z Installations

PRELIMINARY



- Touring
- Installation

8 lo-Z
hi-Z
channels



DSP
on board



- ▶ Multi-zone venues, incl. smaller rooms in large scale installations
- ▶ Emergency systems (IEC 60849)
- ▶ Themed entertainment, amusement parks, shopping malls
- ▶ Cruise ships
- ▶ AV systems, board rooms
- ▶ Houses of worship
- ▶ Theaters, auditoriums
- ▶ Conference & learning centers
- ▶ Hotels, restaurants, bars

Ultimately flexible and safe, with a wide range of system control and monitoring capabilities as well as sound shaping options, and a total of up to 1,280 watts output power over 8 amplifier channels for lo-Z or constant voltage systems, all neatly packed into a single rack unit. As 'stand-alone' in corporate board rooms, or along with Powersoft Duecanali models in the largest setups, the **Ottocanali I204 DSP+ETH** fits any venue.

Powersoft's legendary efficiency saves space and - more importantly - valuable energy, keeping both operational cost and 'carbon footprint' at a minimum. Ancillary technologies, such as the integrated DSP platform and the super-compact BatFormers[®]¹⁾, both developed specifically for the **Ottocanali I204 DSP+ETH**, are adding immense practical value during system design, installation and use, resulting in substantial savings at any level.

Compliant with IEC 60849, and on par with the Duecanali Series, the **Ottocanali I204 DSP+ETH** matches the crucial requirements for sound systems for emergency purposes.

The **Ottocanali I204 DSP+ETH** is unprecedented in combining efficiency, performance and adaptability.

8-channel mode			mono-bridged mode	
4 Ω	8 Ω	70/100 V ¹⁾	8 Ω / ch pair	16 Ω / ch pair
8 x 160 W	8 x 80 W	8 x 130 W	320 W	160 W

1) With BatFormer[®] inserted per channel.

EIAJ Test Standard, 1 kHz, 1% THD

- ✓ **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: 1 RU, and standard depth 360 mm / 14.2"
- ✓ **Driving low impedance and constant voltage¹⁾ systems:**
 - ▶ Through a dedicated lid, optional BatFormers[®] can be plugged anytime into any channel to enable 70V or 100V outputs including galvanic isolation; mixed lo-Z/hi-Z systems possible
 - ▶ BatFormers are highly efficient: only 1/3 of the size of a regular comparable transformer, yet warranting outstanding audio performance
- ✓ **Ready for voice evacuation systems in compliance with IEC 60849:**
 - ▶ Auxiliary signal inputs, enabled remotely or locally
 - ▶ I/O signal integrity monitoring for lo-Z/hi-Z
 - ▶ Fault alarm relay output
- ✓ **Top-grade DSP on board:**
 - ▶ Dual 24-bit A/D & D/A with high dynamic range and 1 ms fixed latency; separate input/output EQ's with numerous filters of various types up to 48 dB/oct; peak, RMS, and frequency dependent limiters, time alignment
 - ▶ Comprehensive system/load monitoring
- ✓ **Direct PC/network connection:**
 - ▶ Ethernet interface for system setup, monitoring and control
 - ▶ Fully manageable via Armonia Pro Audio Suite[™] software
 - ▶ On the same network as all other actual Powersoft amplifiers
- ✓ **Channel output pairs mono-bridgeable (lo-Z), or in series (hi-Z)**
- ✓ **Unique Powersoft technology for efficient, reliable, great sounding performance:**
 - ▶ Universal switch mode power supply with PFC (Power Factor Correction), safe up to 400 V
 - ▶ Fixed frequency switch mode amplifier output stages
 - ▶ Patented amplifier output filters with ripple cancellation network
- ✓ Front panel safety cover hiding gain pots and 'Energy Save' switch
- ✓ 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; severe signals (clipping, VHF, long-term RMS); DC; over-temperature; short circuit; mute at power on/off
- ✓ Also available without DSP and Ethernet port (Ottocanali I204)
- ✓ Full four years warranty



BatFormer¹⁾



Ottocanali, partially equipped with BatFormers

1) BatFormers are optional, and can be retrofitted anytime.

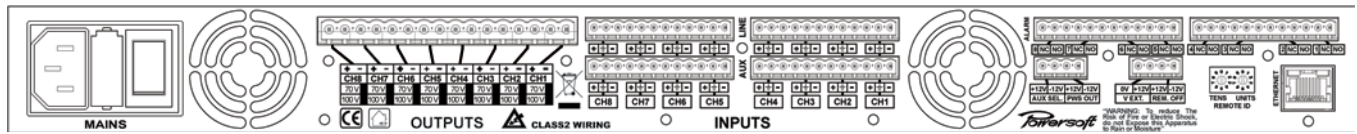


Ottocanali I204 DSP+ETH

Powersoft

8-Channel Power Amplifier with DSP and Ethernet for Lo-Z & Hi-Z Installations

PRELIMINARY



Specifications

General													
Number of channels	8												
Output power	Mono-bridgeable per channel pair. Optional BatFormers® (transformers) per channel for 70 or 100 V constant voltage operation; serial operation of channel pairs equipped with BatFormers for higher voltage possible.												
EIAJ Test Standard, 1 kHz, 1% THD	<table border="1"> <thead> <tr> <th colspan="2">8-channel mode</th> <th colspan="2">mono-bridged mode</th> </tr> <tr> <th>4 Ω</th> <th>8 Ω</th> <th>70/100 V¹⁾</th> <th>16 Ω / ch pair</th> </tr> </thead> <tbody> <tr> <td>8 x 160 W</td> <td>8 x 80 W</td> <td>8 x 130 W</td> <td>160 W</td> </tr> </tbody> </table>	8-channel mode		mono-bridged mode		4 Ω	8 Ω	70/100 V ¹⁾	16 Ω / ch pair	8 x 160 W	8 x 80 W	8 x 130 W	160 W
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4 Ω	8 Ω	70/100 V ¹⁾	16 Ω / ch pair										
8 x 160 W	8 x 80 W	8 x 130 W	160 W										
Max output voltage	38 V _{peak} / 110/155 V _{peak} / 76 V _{peak}												
Max output current	15 A _{peak} / 5/3 A _{peak} / 15 A _{peak}												
AC Mains Power													
Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)												
Operating voltage	95-265 V +/- 10%, 50/60 Hz, tolerant up to 400 V												
Power factor cos (φ)	>0.9 @ >500 W												
Consumption / current draw	<table border="1"> <thead> <tr> <th></th> <th>@ 230 V</th> <th>@ 115 V</th> </tr> </thead> <tbody> <tr> <td>Idle</td> <td>15 VA / 0.07 A</td> <td>0.13 A</td> </tr> <tr> <td>1/8 of max output power @ 4 Ω</td> <td>260 VA / 1.2 A</td> <td>2.4 A</td> </tr> <tr> <td>1/4 of max output power @ 4 Ω</td> <td>tba</td> <td>tba</td> </tr> </tbody> </table>		@ 230 V	@ 115 V	Idle	15 VA / 0.07 A	0.13 A	1/8 of max output power @ 4 Ω	260 VA / 1.2 A	2.4 A	1/4 of max output power @ 4 Ω	tba	tba
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1/8 of max output power @ 4 Ω	260 VA / 1.2 A	2.4 A											
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Thermal													
Environmental operating temperature	0-45° C / 32-113° F												
Thermal dissipation	Fan, continuously variable speed, temperature controlled, front to rear airflow												
Idle	tba												
1/8 of max output power @ 4 Ω	tba												
1/4 of max output power @ 4 Ω	tba												
Audio													
Gain	Lo-Z: 32 dB / Hi-Z: 41 dB @ 70 V, 44 dB @ 100 V												
Input sensitivity @ 8 Ω	0.63 V / -1.79 dBu												
Max input level	+15 dBu												
Input impedance	10 kΩ												
Frequency response	20 Hz - 20 kHz (1 W @ 8 Ω, +/-0.5 dB, or 32/65 W @ 70/100 V, +/-2.5 dB)												
THD+N / SMPTE IMD / DIM100 IMD	typ. <0.05% (<0.5% @ >1 W) ²⁾												
S/N ratio (amplifier section)	112 dB(A)												
Crosstalk separation	>70 dB @ 1 kHz												
Slew rate	50 V/μs @ 8 Ω, input filter bypassed												
Damping factor	>500 @ 20-200 Hz (Lo-Z)												
DSP													
A/D converter	Dual 24-bit 48 kHz Tandem® architecture, dynamic range max. 112 dB(A), THD <0.02% (20 Hz - 20 kHz)												
D/A converter	Dual 24-bit 48 kHz Tandem® architecture, dynamic range max. 115 dB(A), THD <0.02% (20 Hz - 20 kHz)												
Delay for time alignment	Up to 10 ms per output												
Crossover filters	Butterworth, Linkwitz-Riley, Bessel, 6-48 dB/oct												
Output equalizer	8 filters max (filter types: parametric, hi/lo shelving, hi/lo pass, band pass, band stop, all pass)												
Input equalizer	5 filters max (filter types: parametric, hi/lo shelving, hi/lo pass, band pass, band stop, all pass)												
Limiters	Peak, RMS, frequency dependent												
Front Panel													
Indicators	7 x signal level LED per channel: 4 x green, 2 x yellow, 1 x red												
Controls	Pushbutton for input selection main/aux (globally). Behind safety cover: Gain pots (per channel), pushbuttons for DSP preset selection, and 'Energy Save' (per channel pair).												
Maintenance	Dust filter foam behind safety covers												
Rear Panel													
Audio signal input connectors	2 x 8 x 3-pin Phoenix MCI.5/3-ST-3.81, electronically balanced, for main and aux												
Loudspeaker output connectors	8 x 2-pin Phoenix GMSTB2.5/2-ST												
Fault alarm connectors	8 x 3-pin Phoenix MCI.5/2-ST-3.81 24 V _{dc} relay outputs												
Aux command (triggering aux inputs)	1 x 2-pin Phoenix MCI.5/2-ST-3.81 24 V _{dc} relay input												
Aux front switch enabling	1 x 2-pin Phoenix MCI.5/2-ST-3.81 24 V _{dc} relay input												
Aux voltage for remote on/off switching	1 x 2-pin Phoenix MCI.5/2-ST-3.81 8-24 V _{dc} input												
AC mains	IEC C13 16 A connector incl cable retention												
	AC mains cord with 3-pin plug 15 A for U.S., IEC 'Schuko' 16 A for else												
Control	Mains power on/off switch												
Construction													
Dimensions	W 483 mm / 19", H 44.45 mm / 1.75" / 1 RU, D 360 mm / 14.2"												
Weight	5-11 kg / 11-24.3 lbs, depending on number of BatFormers												
Chassis	Steel safety/dust covers; 3 mm steel front panel, side reinforcement, rear support; 1 mm steel top & bottom lid, rear panel												

1) With BatFormer® inserted per channel.

2) Guaranteed by design.

Data is subject to change without notice.

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