Ottocanali 1204 DSP Series

8-Channel power amplifier platform
For Hi-Z and Low-Z Application

☐ Touring
☑ Installation

8 lo-Z hi-Z channels

SRM

PFC

DSP onboard

channel routing

Armonía Pro Audio Suite™

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 1,200 W output power over 8 amplifier channels for lo-Z or distributed line systems, all neatly packed into a single rack unit. Powersoft's legendary efficiency saves space and 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 1204 DSP, add immense practical value during system design, installation and use, resulting in substantial savings at any level.

Compliant with IEC 60849, the Ottocanali 1204 DSP matches the stringent requirements for sound systems for emergency purposes.

The Ottocanali 1204 DSP is unprecedented in combining efficiency, performance and adaptability.

BatFormer[1)]

Ottocanali, partially equipped with BatFormers

- Multi-zone venues
- Themed entertainment, amusement parks, shopping malls
- Cruise ships
- AV Systems, board rooms
- Houses of worship
- Theaters, auditoriums, concert halls
- Hotels, restaurants, bars
- Conference & learning centres

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Powersoft AUDIO

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Specifications

Channel Handling		
Number of output channels	8 Hi-Z or Lo-Z (bridgeable per ch. pair)*	1x 8 Pin Phoenix DFK-PC 4/8-G-7.62
Number of input channels		
Analog	8 Main Line	12 Pin Phoenix MC 1.5/12-ST-3.81
	8 AUX	12 Pin Phoenix MC 1.5/12-ST-3.81

Audio	
Gain	32 dB (@lo-Z) | 41 dB (@70V hi-Z) | 44 dB (@100V hi-Z)
Input sensitivity @ 8 Ω	20 Hz - 20 kHz (1 W @ 8 Ω, +/-0.5 dB, or 32/65 W @ 70/100 V, +/-2.5 dB)
Max input level	0.63 V / -1.79 dBu
Frequency Response (±0.5 dB , 1 W @ 8 Ω)	20 Hz - 20 kHz @ lo-Z 57 Hz - 16 Hz @ 70V hi-Z 57 Hz - 15.5 Hz @ 100V hi-Z
Crosstalk (1 kHz)	>61 dB @ lo-Z >61 dB @ 70V hi-Z >61 dB @ 100V hi-Z
S/N (20 Hz - 20 kHz A-Weighted @ 8 Ω)	>92 dBA @ lo-Z >92 dBA @ 70V hi-Z >92 dBA @ 100V hi-Z
Input impedance	10 kΩ Balanced
THD+N (from 0.1 W to Full Power)	typical < 0.05%
DIM (from 0.1 W to Full Power)	< 0.8%
Slew Rate (input filter bypassed @ 8 Ω)	12 V/µs
Damping Factor @ 8 Ω, 20 Hz - 200 Hz	> 500 (lo-Z)

AC Mains Power				
Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)			
Nominal voltage (±10%)	100-240 V @ 50-60Hz			
Power factor (> 500 W ouput)	> 0.8			
Consumption/current draw	@ 115 V		@ 230 V	
Idle (Energy Save On)	13.9 W	0.26 A	14.6 W	0.34 A
Idle (Energy Save Off)	20 W	0.33 A	21.2 W	0.36 A
1/8 Max Output Power @ 4 Ω	224 W	1.99 A	223 W	1.24 A
1/4 Max Output Power @ 4 Ω	423 W	3.70 A	417 W	2.00 A
AC Mains connector	IEC C13 inlet (16 A max) region-specific power cord provided			

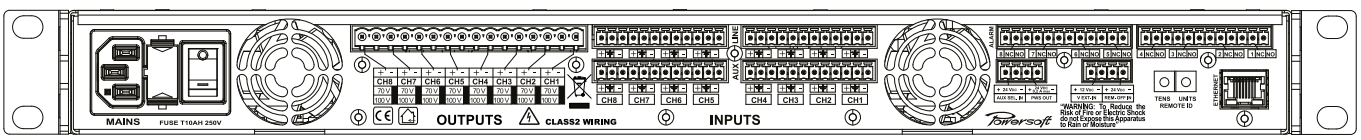
Construction	
Dimensions	483 x 44.45 x 360 mm 19.0 x 1.75 x 14.2 in
Weight	5-11 Kg (11-24.3 lb) depending on the number of installed BatFormers®

Output Stage	
Maximum output power per channel @ 8 Ω	80 W
Maximum output power per channel @ 4 Ω	150 W
Maximum output power @ 16 Ω Bridged (Channel Pair)	150 W
Maximum output power @ 8 Ω Bridged (Channel Pair)	300 W
Maximum output power @ Hi-Z distributed line 100 V*	130 W
Maximum output power @ Hi-Z distributed line 70 V*	125 W
Maximum unclipped output voltage @ 8 Ω	37 V_{peak}
Maximum unclipped output voltage @ 70 V	77 V_{peak}
Maximum unclipped output voltage @ 100 V	151 V_{peak}
Maximum unclipped output voltage @ Mono-Bridged	76 V_{peak}
Maximum output current @ 8 Ω	15 A_{peak}
Maximum output current @ 70 V	4.8 A_{peak}
Maximum output current @ 100 V	3.4 A_{peak}
Maximum output current @ Mono-Bridged	15 A_{peak}

The power figure is calculated by driving and loading symmetrically all the channels: uneven loads allow to achieve higher performances.

DSP	
AD converters	24bit/48kHz 100dB SNR, THD < 0.02% (20 Hz - 20 kHz)
DA converters	24bit/48kHz 102dB SNR, THD < 0.02% (20 Hz - 20 kHz)
Delay	up to 16 ms per output
Equalizer	5 (input) / 8 (output) filters max (filter types: parametric, hi/lo shelving, hi/lo pass, band pass, band stop, all pass)
Crossover	Butterworth, Linkwitz-Riley, Bessel, 6-48 dB/oct
Limiters	Peak, RMS

Thermal				
Operating temperature	0° - 35° C / 32° - 95° F			
Cooling	Fan, variable speed, temperature controlled, front to rear airflow			
Thermal dissipation	@ 115 V		@ 230 V	
Idle (Energy Save On)	29.66 BTU/h	7.48 kcal/h	31.71 BTU/h	8.00 kcal/h
Idle (Energy Save Off)	50.12 BTU/h	12.64 kcal/h	53.20 BTU/h	13.42 kcal/h
1/8 Max Output Power @ 4 Ω	252.34 BTU/h	63.64 kcal/h	248.93 BTU/h	62.78 kcal/h
1/4 Max Output Power @ 4 Ω	419.41 BTU/h	105.78 kcal/h	398.97 BTU/h	100.62 kcal/h



*With BatFormer® inserted per channel.

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