Ottocanali 1204 DSP Series

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





□ Touring Installation



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 super-compact and the BatFormers^{®1}, both developed specifically for the Ottocanali 1204 DSP, add immense practical value during system



onboard

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.









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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Specifications

Channel Handling				
Number of output channels	8 Hi-Z or Lo (bridgeable per ch	-Z . pair)*	1x 8 Pin Phoenix DFK-PC 4/8-G-7.62	
Number of input channels				
	8 Main Line		12 Pin Phoenix MC 1 5/12-ST-3 81	
Analog	8 AUX		12 Pin Phoenix	
	0,10,1		MC 1.5/12-51-3.81	
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 ($\pm 0.5~\text{dB}$, 1 W @ 8 $\Omega)$		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 IVIAILIS FOWER				
F	ower supply	Universal, regulated switch mode with PFC (Power Factor Correction)			
Ν	lominal voltage (±10%)	100-240 V @ 50-60Hz			
F	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			vided

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 $BatFormers^{\ensuremath{\mathbb{R}}}$

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 $\mathrm{V}^{\!\star}$	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	@ 11	5 V	@ 23	30 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 ${}^{\textcircled{\sc 8}}$ inserted per channel.

