

AT2404-A

4-CHANNEL FIXED INSTALLATION AMPLIFIER PLATFORM WITH DSP AND AES67

Code Powersoft: QUATTROCANALI 2404 DSP+



GENERAL

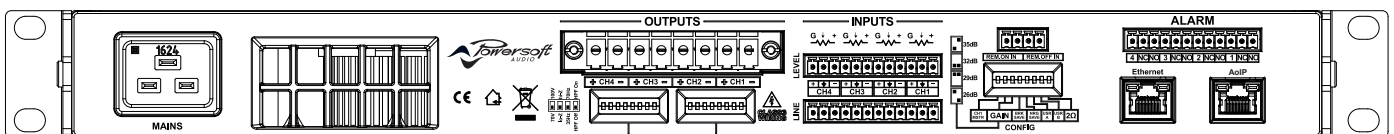
Output power per Channel	800 W @ 2 Ω	600 W @ 4 Ω	600 W @ 8 Ω
Bridge mode		1600 W @ 4 Ω	1200 W @ 8 Ω
Max output voltage / current			
Max unclipped voltage @8	100 Vpeak		
Current	45 Apeak		

AC MAIN POWER

Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)		
Nominal power requirement	100-240 V ±10%, 50-60 Hz		
Operating voltage	90 V – 264 V		
Power consumption/current draw			
Idle	115 V: 31.1 W – 0.45 A	230 V: 31.5 W – 0.25 A	
1/8 of max output power @ 4 Ω	115 V: 405 W – 2.1 A	230 V: 405 W – 2.5 A	

THERMAL

Operating temperature range	0° – 45° C – 32° – 113° F		
Thermal dissipation			
Idle	115 V: 106 BTU/h	230 V: 107 BTU/h	
1/8 of max output power @ 4 Ω	115 V: 360 BTU/h	230 V: 360 BTU/h	



Channel Handling	
Number of output channels	4 Hi-Z or Lo-Z (bridgeable per ch. pair) Phoenix PC 5/8-SIF1-7,62
Number of input channels	
Analog	4 Phoenix MC 1,5/12-ST-3,81
AES67	4 1 x RJ45
Audio	
Input sensitivity @ 8 Ω with 26 dB Gain	3.54
Input sensitivity @ 8 Ω with 29 dB Gain	2.51
Input sensitivity @ 8 Ω with 32 dB Gain	1.78
Input sensitivity @ 8 Ω with 35 dB Gain	1.26
SNR (20 Hz - 20 kHz @ 8 Ω - typical)	108
Max input level	20 dBu
Frequency Response	20 Hz - 20 kHz ±1.0 dB, 1 W @ 8 Ω
Crosstalk (1 kHz)	typical -70 dB
Input impedance	20 kΩ balanced
THD+N (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)
SMPTE IMD (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)
Slew Rate	> 50 V/μs @ 8 Ω, input filter bypassed
Output impedance at 100 Hz	26 mΩ
DSP	
AD converters	24 Bit Tandem™ @ 48 kHz typical 125 dB-A Dynamic Range - 0.005 % THD+N
DA converters	4 Bit Tandem™ @ 48 kHz typical 117 dB-A Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 44.1 kHz to 96 kHz typical 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture
Memory/Presets speaker presets	49 amplifier snapshots, virtually unlimited
Delay	2 s (input) + 100 ms (output) for time alignment
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/ oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance™ measurement

Output Stage	
per channel @ 8 Ω (symmetrical)*	600
per channel @ 4 Ω (symmetrical)*	600
per channel @ 2 Ω (symmetrical)*	800
@ 4 Ω Bridged (symmetrical)*	1600
@ 8 Ω Bridged (symmetrical)*	1200
@ Hi-Z distributed line 100 V (symme- trical)*	600
@ Hi-Z distributed line 70 V (symme- trical)*	600
per channel @ 8 Ω (asymmetrical)**	1300
per channel @ 4 Ω (asymmetrical)**	1700
per channel @ 2 Ω (asymmetrical)**	1600
@ Hi-Z distributed line 100 V (asymme- trical)**	1500
@ Hi-Z distributed line 70 V (asymme- trical)**	1700
Maximum unclipped output voltage @ 8 Ω	100 Vpeak
Maximum output current	45 Apeak
* : All channels driven with the same burst power ** : Maximum power-sharing capacity per channe	
Power	
Nominal voltage (± 10%)	100-240 VAC @ 50-60Hz
Operating Voltage	90-264 VAC
AC Mains connector	IEC C20 inlet (20 A max) region-specific power cord provided
Typical use case power consumption is expected to be at least 20% lower (likely more than 50% lower)	
Networking	
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star
Remote interface	ArmoniaPlus™
Construction	
Dimensions	483 x 44.5 x 358 mm 19.0 x 1.75 x 14.1 in
Weight	7 Kg (15 lb)
CERTIFICATIONS - A&E SPECIFICATIONS - USER GUIDES - SOFTWARE	
Powersoft site	www.powersoft.com