Duecanali Series

2-Channel Fixed Installation Amplifier Platform

○ TOURING

⊘ INSTALLATION

2 LO-Z HI-Z CHANNELS | 1U | SAFETY RELIABILITY | SRM | PFC | ArmoníaPlus System Manager

Excellent sound quality and ample output power result from Powersoft's unique approach to Class D amplification, making the Duecanali Series ideal for the main system in any venue where performance is priority.

Providing access to all relevant amplifier parameter yet easily set up, the Duecanali Series is versatile in use. Status feedback is delivered via its front panel LED display or through a connected PC running ArmoníaPlus™ software.

The Duecanali Series heralds Powersoft's renowned efficiency, saving valuable energy, therefore keeping both operational cost and carbon footprint at a minimum.

This state of the art amplifier platform shines with outstandingly low power consumption and heat dissipation, with direct positive effects on investment – not to mention the benefits for the environment and aiding to support a more eco-friendly planet.

The Duecanali series is designed to work with low impedance (from 2 Ω) and with 70V/100V distributed lines: any mixed configuration of low and high impedance output loads can be realized, making the Duecanali suitable for all application in installed sound reinforcement systems, no matter the size.

The full protection circuitry covers the investment from the most common unwanted conditions, such as: over/under voltage, clipped signals, VHF emissions, and short circuits.

- Small to Medium-scale venues
- Main systems, central or distributed, subwoofers, hi-Z/lo-Z
- Emergency systems (IEC 60849)
- Stadiums, arenas
- Theaters, concert halls
- Houses of worship
- Convention centers
- Amusement parks, themed entertainment
- Cruise ships

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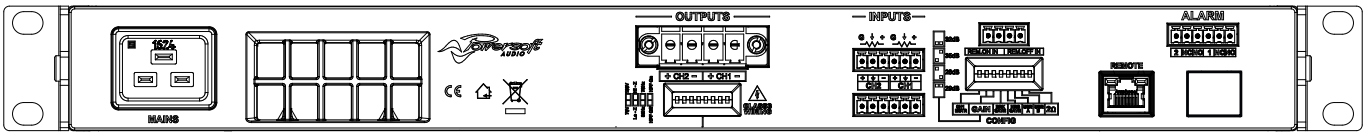

Specifications

Channel Handling		
Number of output channels	2 Hi-Z or Lo-Z (bridgeable per ch. pair)	Phoenix PC 5/8-STF1-7,62
Number of input channels		
Analog	2	Phoenix MC 1,5/12-ST-3,81

Audio	Gain	804	1604	4804	
Input sensitivity @ 8 Ω	26 dB	2.84	4.08	5.03	Vrms
Input sensitivity @ 8 Ω	29 dB	2.01	2.89	3.56	Vrms
Input sensitivity @ 8 Ω	32 dB	1.42	2.04	2.52	Vrms
Input sensitivity @ 8 Ω	35 dB	1.01	1.45	1.79	Vrms
S/N (20 Hz - 20 kHz @ 8 Ω)		>106	>109	>111	dB(A)

Max input level	20 dBu
Frequency Response	20 Hz - 20 kHz +/-0.5 dB, 1 W @ 8 Ω
Crosstalk (1 kHz)	typical -70 dB
Input impedance	20kΩ Balanced
THD+N (from 0.1 W to Full Power)	< 0.1% (typical < 0.05%)
DIM (from 0.1 W to Full Power)	< 0.05%
Slew Rate	26 mΩ
Damping Factor	> 1000 @ 8 Ω, 20 Hz - 100 Hz

Networking	
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star
Remote interface	ArmoníaPlus™

Construction	
Dimensions	483 x 44.5 x 358 mm 19.0 x 1.75 x 14.1 in
Weight	7 Kg (15.4 lb)

Output Stage	804	1604	4804
Maximum output power per channel @ 8 Ω	400 W	800 W	1250 W
Maximum output power per channel @ 4 Ω	400 W	800 W	2400 W
Maximum output power per channel @ 2 Ω	500 W	1000 W	3000 W
Maximum output power @ 4 Ω Bridged	1000 W	2000 W	6000 W
Maximum output power @ 8 Ω Bridged	800 W	1600 W	4800 W
Maximum output power @ Hi-Z distributed line 100 V	400 W	800 W	2400 W
Maximum output power @ Hi-Z distributed line 70 V	400 W	800 W	2400 W
Maximum unclipped output voltage @ 8 Ω	80 V_{peak}	115 V_{peak}	142 V_{peak}
Maximum output current	39 A_{peak}	45 A_{peak}	80 A_{peak}

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

Power & Thermal			804	1604	4804	
@ 115 V	Idle	Power	25.6	25.6	30.3	W
		Current Draw	0.38	0.38	0.34	A_{rms}
		Thermal Loss	87	87	103	BTU/h
	1/8 Power @ 4Ω	Power	150	270	777	W
		Current Draw	1.4	2.5	7.0	A_{rms}
		Thermal Loss	171	238	606	BTU/h
@ 230 V	Idle	Power	24.7	25.5	31.0	W
		Current Draw	0.23	0.23	0.32	A_{rms}
		Thermal Loss	84	87	106	BTU/h
	1/8 Power @ 4Ω	Power	149	276	753	W
		Current Draw	0.92	1.5	3.9	A_{rms}
		Thermal Loss	168	259	522	BTU/h
Power supply			Universal regulated switch mode with PFC, SRM			
Nominal voltage (±10%)			100-240 V @ 50-60Hz			
Operating Voltage			60-264 V (with reduced power below 90 V)			
AC Mains connector			IEC C20 inlet (20 A max) region-specific power cord provided			

Data subject to change without notice.