Duecanali Series

2-Channel High-Performance Amplifier Platform





☐ Touring✓ Installation









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, providing status feedback via its front panel LED display or a connected PC running Armonía Pro Audio Suite™ software.

Powersoft's legendary efficiency saves valuable energy, keeping both

operational cost and carbon footprint at a minimum: the Duecanali Series shines with outstandingly low power consumption and heat dissipation, with direct positive effects on investment – not to mention the benefits for the environment and a more ecofriendly planet.

The Duecanali series is designed to work with lo-Z (from 2Ω) 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.

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	20 kΩ 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	> 50 V/ μ s @ 8 Ω , input filter bypassed				
Damping Factor	> 500 @ 8 Ω, 20 Hz - 100 Hz				

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

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						
	Power & Mermai		804	1604	4804	
		Power	25.6	25.6	30.3	W
	Idle	Current Draw	0.38	0.38	0.34	A_{rms}
115 V		Thermal Loss	87	87	103	BTU/h
@ 1	1/8	Power	150	270	777	W
	Power	Current Draw	1.4	2.5	7.0	A _{rms}
	@ 4Ω	Thermal Loss	171	238	606	BTU/h
		Power	24.7	25.5	31.0	W
	Idle	Current Draw	0.23	0.23	0.32	A_{rms}
230 V		Thermal Loss	84	87	106	BTU/h
@ 2;	1/8	Power	149	276	753	W
	Power	Current Draw	0.92	1.5	3.9	A _{rms}
	@ 4Ω	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			

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



