

The KDL Series amplifiers from KIND offer true professional quality performance at an affordable price. KDL models are designed to work into 2 ohm loads. Five 2 RU models, provide 400 to 1500 watts per channel at 2 ohm. All five models feature a compact chassis deep 391 mm (15.4") only.

Every KDL model perfectly suited for a wide range of sound reinforcement applications including professional touring, performing musicians, and mobile entertainers, with extraordinary audio performance.

KDL amplifiers include a comprehensive set of features including three input connectors type, as Neutrik Combo™ (XLR and 1/4" jack) and 3-pin detachable Europlug (Phoenix); outputs connectors Speakon® for fast and safety / secure connectivity and front accessible dust filter for easy and fast unit cleaning.

The KDL models are based on Class D output circuit controlled by a TeoTon technology modulator patented by KIND Audio. Thanks to the high efficiency (more than 85%) Class D output circuit, dramatically reduce power distribution demands compared to older high power amplifiers. Other great advantages of this technology are: low heat dissipation, compact size, and KIND sonic integrity.

KDL Series incorporates comprehensive warning and protection features to safeguard the amplifier and all connected loudspeaker drivers. Front-panel indicators give clear warnings when any potential problems are detected. Protection measures are enabled only when critical thresholds are passed or at start-up. Additionally, a soft-start circuit limits initial current draw when amplifier is turned on.

The KDL series have an open input architecture and can have as option a Digital Signal Processing board (KIND DSP board-I) and a remote control that allows monitoring of all key amplifier parameters: power on/off, channel mutes, and channel solo functions.

The KDL series have a professional look and a very strong chassis; KIND design and construction has been tested and refined over many years. The circuit board design is modular, because this type of construction greatly improves future technical assistance.



KDL Benefits

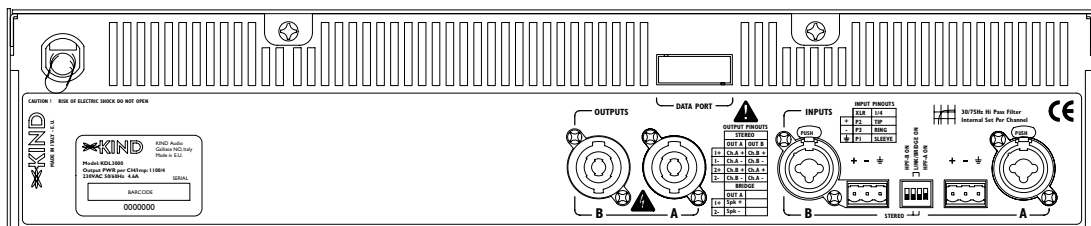
- Professional quality performance—incorporates road-proven KIND designs
- Compact size—up to 3000 watts in 2 rack spaces
- High-current toroidal transformer for greater 2 ohm power and low noise
- Class D output circuit / TeoTon technology for high efficiency and sonic transparency
- Channels bridgeable
- Strong Reduction of kW/hr needed and power distributions demands
- Low Heat Dissipation
- Clip Limiters
- Bar LED indicators to monitor performance
- Two selectable input gains (26 dB, 32 dB)
- Selectable low-freq. Filters (30Hz or 75Hz)
- Tamper-proof optional DSP board
- Balanced Neutrik Combo™ (XLR, 1/4 TRS) and 3-pin Europlug (Phoenix)
- Neutrik Speakon™ Outputs
- Stepped Gain controls Knobs
- Continuously variable speed fans
- Front accessible dust filter
- Craftsmen built in Galliate, Italy
- 3 year Warranty

Specifications

Model	KDL 800	KDL 1200	KDL 1600	KDL 2200	KDL 3000
Number of channels	2	2	2	2	2
Power Output Per Channel¹⁾					
16 ohms per ch. (all channels driven)	110 W	150 W	200 W	260 W	320 W
8 ohms per ch. (all channels driven)	200 W	280 W	380 W	500 W	600 W
4 ohms per ch. (all channels driven)	300 W	450 W	600 W	750 W	1100 W
2 ohms per ch. (all channels driven)	400 W	600 W	800 W	1100 W	1500 W
Power Output Bridged¹⁾					
16 ohms per ch.	400 W	560 W	760 W	1000 W	1200 W
8 ohms per ch.	600 W	900 W	1200 W	1500 W	2200 W
4 ohms per ch.	800 W	1200 W	1600 W	2200 W	3000 W
Performance With Gain					
THD+N 20 Hz - 20kHz for 1 W @ 4 ohms	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
THD @ 1 kHz 1 dB below clipping @ 4 ohms	<0.2%	<0.2%	<0.2%	<0.2%	<0.2%
Signal to Noise Ratio	>104 dBA	>104 dBA	>104 dBA	>104 dBA	>104 dBA
Frequency Response (1 W @ 8 ohms) +0/-1dB	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz
Damping Factor @ 8 ohms load, 10 Hz to 200 Hz	>200	>200	>200	>200	>200
Output Slew rate @ 8 ohms (input filter bypassed)	45V / μ S	45V / μ S	45V / μ S	45V / μ S	45V / μ S
Input Impedance Balanced / Unbalanced	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm
Input CMRR	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB
Gain and Level					
Input Sensitivity @ 4 ohms (32 dB gain) +/- 3 %	0.87V	1.07V	1.23V	1.37V	1.65V
Input Gain Selectable (all channels, internal jumpers)	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB
Default Gain	32 dB	32 dB	32 dB	32 dB	32 dB
Level Adjustment (per channel)	Front panel potentiometer, 21 pos. stepped gain from -80 to 0 dB				
Front panel Indicators					
Common	Active on (normal status), Active off (mute); Hi temperature (blinking for power reduction and on for mute); Internal option board present				
Per channel	Signal output -35 dB, -20 dB, -10 dB; Clip / Limit; Protect				
Connectors and switches					
Input connectors (per channel)	Balanced: Neutrik Combo™ (XLR and 1/4" jack), XLR pin 2 and TRS tip positive, and 3-pin detachable Europlug (Phoenix)				
Output connectors (per channel)	Neutrik Speakon™ (bi-wiring connected)				
Output bridge mode per two channels	A+B - ch.A is signal input source				
Rear panel 4 position DIP switches	Ch. A / B High Pass Filter 30/75 Hz on; Ch.'s A+B link/Bridge on				
Power (on/off)	switch on front panel				
Output Circuitry					
	Class D / TeoTon™ technology				
Power Supply					
	Linear power supply, with toroidal transformer				
Cooling					
	Fan, front to rear air flow, temperature controlled speed; front panel removable dust filter				
Amplifier and Load Protection					
	Short circuit, open circuit, thermal, RF protection, mains over / lower voltage. On/off muting, DC fault shutdown, clip limiter				
Power					
Operating voltage (selectable inside the unit)	Nominal 115V AC (75-132V AC) - 50/60 Hz, min. power up voltage 90V; or nominal 230V AC (150-264V AC) - 50/60 Hz, min. power up voltage 180V				
Current draw @ 230V AC 1/8 power 4 ohms	1.0 A	1.3 A	1.5 A	1.8 A	2.4 A
Current draw @ 230V AC 1/3 power 4 ohms	1.6 A	2.2 A	2.7 A	3.3 A	4.6 A
Current draw @ 230V AC, idle	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A
Soft start / Inrush current draw @230V AC	Yes / max. 2 A				
AC cordset	230V CE: 16 A, CEE7; 115V ETL: 15 A, NEMA-15				
Options					
	Digital Signal Processing board (KIND DSP board-1), handles				
Dimensions (W/H/D)					
	W: 483 mm (19"), H: 88.9 mm (3.5" - 2 RU), Overall with optional handles D: 426 mm (16.77"), From front mounting rails D: 391 mm (15.4")				
Weight - Net / Shipping					
	13.5 kg (29.7 lbs.) / 16.5 kg (36.3 lbs.) 14.5 kg (31.9 lbs.) / 17.5 kg (38.5 lbs.) 14.5 kg (31.9 lbs.) / 17.5 kg (38.5 lbs.) 16 kg (35.2 lbs.) / 19 kg (41.8 lbs.) 18 kg (39.6 lbs.) / 21 kg (46.2 lbs.)				
Approvals					
	CE EN55103-1 (Emissions), EN55103-2 (Immunity), EN60065, Class I (Safety)				

Note 1) EIA 1kHz - 1% THD @ 230V AC

All specifications are subject to change without notice.



KIND is a trademark of A&G S.r.l.

Via Montello, 19 - 28066 Galliate (NO) ITALY - Tel. +39 0321 865271 - Fax +39 0321 861674 - e-mail: info@kindaudio.com

Item no. TDS-KDL-V01-22/02/08

