

# KA10, KA10-10, KA40

A high technology Class D power amplifier line

## Features:

- Very light weight
- Compact design, 2 rack units per 4 channels
- Optical limiters
- Electronically protected
- Over-high efficiency
- DSP on-board to drive all K-array products
- Remote control (KA10, KA10-10, KA40)
- Management software (KA10, KA10-10, KA40)
- Top quality components for outstanding performance Aluminum frame

## Applications:

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Exhibit audio for museum displays
- Cinema and installed AV systems
- Stage monitoring

array  
**K**

## DATASHEET



The K-array KA line of power amplifiers are built into a 2U, half-rack, light weight aluminum chassis. Each model is comprised of two or four output channels providing up to eight channels in a standard 2U rack space when mounted together. KA amplifiers feature optical limiters, and protection against over temperature, over current and short circuits.

KA series amplifiers have on-board DSP presets specifically optimized for all K-array speaker systems. In the KA10, KA10-10 and KA 40, a dedicated remote control software allows for management of the installed presets and the ability to download new ones.

[www.k-array.com](http://www.k-array.com)

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	<b>KA10</b>	<b>KA40</b>	<b>KA10-10</b>
	<b>Output power</b>		
Max power 4Ω	2 x 500 w <sup>(EIAJ)</sup>	2 x 2000 w <sup>(EIAJ)</sup>	4 x 500 w <sup>(EIAJ)</sup>
Max power 8Ω	2 x 260 w <sup>(EIAJ)</sup>	2 x 1200 w <sup>(EIAJ)</sup>	4 x 260 w <sup>(EIAJ)</sup>
Max power - bridged 8Ω	1000 w <sup>(EIAJ)</sup>	4000 w <sup>(EIAJ)</sup>	
Connectors	2 x 4-pin Speakon	2 x 4-pin Speakon	2 x 4-pin Speakon
Speakon 1 wiring	pin 1+,1- = CH1 pin 2+, 2- = CH2	pin 1+,1- = CH1 pin 2+, 2- = CH2	pin 1+,1- = CH1 pin 2+, 2- = CH3
Speakon 2 wiring	pin 1+,1- = CH2 pin 2+,2- = N.C.	pin 1+,1- = CH2 pin 2+ 2- = N.C.	pin 1+,1- = CH2 pin 2+ 2- = CH4
	<b>Audio specs</b>		
Slew Rate 8Ω	50V/μS	30V/μS	50V/μS
S/N Ratio	>105 dB/A	>108 dB/A	>105 dB/A
Distortion (THD, DIM, SMPTE)	<0.5%	<0.5%	<0.5%
Input impedance	20K bal. 10K unbal.	20K bal. 10K unbal.	20K bal. 10K unbal.
Gain	Variable	Variable	Variable
Output	Unbalanced to ground	Unbalanced to ground	Unbalanced to ground
Bandwidth	10 Hz - 30 KHz	5 Hz - 25 KHz	10 Hz - 30 KHz
Damping Factor 8Ω (100Hz)	>500	>300	>500
	<b>Protection</b>		
Thermal protection	Yes	Yes	Yes
Short circuit / over-load	Yes	Yes	Yes
Clip limit, Analog signal limit	Yes	Yes	Yes
	<b>Audio Input</b>		
Connectors	2 x M + 2 x F bal. 3-pin XLR	2 x M + 2 x F bal. 3-pin XLR	2 x M + 2 x F bal. 3-pin XLR
Wiring	1=gn d 2=hot 3 = cold	1=gn d 2=hot 3 = cold	1=gn d 2=hot 3 = cold
	<b>Remote control Input</b>		
Connectors	2 x female 8-pin RJ45	2 x female 8-pin RJ45	2 x female 8-pin RJ45
	<b>Remote control</b>		
Protocol	RS485 - V2 software	RS485 - V2 software	RS485 - V2 software
	<b>AC power</b>		
Connectors	2 x PowerCon IN/OUT	2 x PowerCon IN/OUT	2 x PowerCon IN/OUT
Operating range	EU 210-240 Vac 50Hz USA 100-120 Vac 60Hz	85 - 270 Vac 50/60Hz Universal up to 400 Vac	EU 210-240 Vac 50Hz USA 100-120 Vac 60Hz
Max continuous and burst current	EU 5A(>10s) - 10A (<1s) USA 10A(>10s)-20A(<1s)	Overvoltage tolerance 12A(>10s) - 24A(<1s)	EU 6.3A(>10s)- 12A (<1s) USA 12A(>10s) - 24A(<1s)
	<b>Physical</b>		
Dimensions	20 (1/2 U rack) x 8.8 (2U rack) x 48.5 cm - (7.87"x 3.46"x 19.09")		
Weight	3.5 Kg (7.72 lbs)	5 Kg (11.02 lbs)	4.5 Kg (9.92 lbs)
	<small>Notes for data</small> New materials and design are introduced into existing products without previous notice. Present systems may differ in some respects from those presented in this brochure		