TOURING LINE

TOURING
AMPLIFIER
PLATFORMS.
OPEN SYSTEM
OPEN MINDED.

Great sound, reliability, and power density are of paramount importance when on tour. This is why leading tour companies opt for Powersoft Amplification. Small in size and light in weight, Powersoft amplifiers are easy to haul around, yet their efficiency enables amazing amounts of reliable and great sounding power, no matter if it's for stadium shows or club gigs.

Choose from a wide range of models with 2, 4, and 8 channels, state-of-the-art DSP and networking options, and many more features useful on the road.

Powersoft DSP technology has been optimized to be controlled by Armonìa Pro Audio Suite^{TM}, furtherly reducing the need of clumbersome outboard gear.

WHY
WE
ROCK.

GREEN AUDIO POWER

At Powersoft, we take pride in our commitment to produce in a more sustainable way, and in delivering more efficient products by exploiting the full potential of class D amplification. The **PFC** technology grants extremely high efficiency values: our touring line amplifier platforms transform all the energy drawn from the mains into usable power. The **Smart Rail Management** recycles the reactive energy coming back from the loudspeakers. Without compromising sound quality, the implementation of these technologies enhances the listener's experience, whilst helping to preserve the beauty of our planet.

AUDIO NETWORK

Our high-performance amplifier platforms **seamlessly integrate** within networking environments.
Basic remote control is available in non DSP models through Armonìa, whilst comprehensive remote control is available in DSP+D models.
DSP+D versions are equipped with **Dante™** inputs, offering an even wider range of **compatibility**, **monitoring and sound shaping** capabilities. The whole line may be controlled by **third party applications** both in wired networks and through Wi-Fi. Full flexibility in control is granted through the **Operator View** via any remote device.

SAFETY AND RELIABILITY

Our Touring Line Amplifier Platforms can be trusted in the most demanding situations.
Some safety features include:
- Live Impedance Monitoring
- Pilot tone Monitoring
- 5 Independent Limiter types
- Fold Back Audio Routing
- Input and Output Monitoring

AUDIO QUALITY

Powersoft's renowned sound quality has its roots in the experience matured in more than 20 years of being at the forefront of the **Class D Revolution**.
Our refined DSP has outstanding digital sound processing capabilities allowing the engineer to tailor the sound to specific needs.
By recycling the otherwise wasted reactive energy gathered from the transducer, and actively controlling the **Damping Factor,** our Amplifier Platform delivers crisp highs and rounded, full lows even at low levels.

"For the music we play you need headroom, and theoretically this will take 8,000W. Dub music requires sustained bass notes and the amps we have used in the past would sometimes struggle." - Jerome Joly, Mungo's Hi Fi.

MUNGO'S HI-FI SOUNDSYSTEM

CHALLENGE
Reducing the power to weight ratio of the amplifiers and processing platforms, while granting output power consistency for the heavily sustained bass notes.

SOLUTION
One X8 Amplifier Platform driving the stereo mid-top enclosures, and one K20 Amplifier Platform assigned to the subwoofers.

RESULT
A smaller and lighter amplifier rack with in built sound processing capabilities, provinding massive amounts of sustained and controlled power.
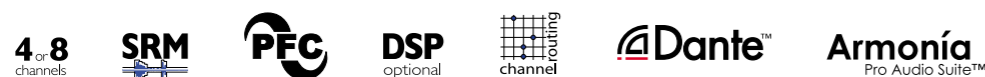
X SERIES
X8 X4

THE PINNACLE OF POWERSOFT'S KNOW-HOW IN AMPLIFIER PLATFORM DESIGN

The X Series is no longer simply a power amplifier but a complete loudspeaker management system, including all signal processing functions.
It innovates and evolves the concept of the amplification platform through the integration of a worldwide compatible three-phase powerbox, routing matrix, and a full feature DSP inside the amplifier.

Depending on the application, the X Series amplifier platform is also available with redundant Brooklyn II based Dante™ solution digital streams. It natively supports AES3, and traditional analogue inputs, providing up to four different selectable input sources per channel.

Full Armonía™ integration, and WiFi connection for remote control and monitoring on mobile devices through the dedicated webapp.

4 or 8 channels | SRM | PFC | DSP optional | channel routing | Dante™ | Armonía Pro Audio Suite™

PRODUCT RANGE

Model	2 Ω	4 Ω	8 Ω
X4/X8	5200 W	3000 W	1600 W

KEY FEATURES

- Suitable for Single Phase, Bi Phase, Three Phase operation from 85 VAC up to 440 VAC
- Low Inrush Limiting reduces AC inrush current, removing the need for power sequencers
- Harmful signal protections: DC, VHF and clipping.
- Signal grouping for speaker routing
- Hardware monitor available for fast local diagnostic
- Input delay up to 4 s and output delay up to 200 ms for time alignment per channel
- Active DampingControl™ for cable compensation
- Compact size and high power density
- Fully protected circuit design
- 6th generation fixed frequency switchmode output stage for high grade sound accuracy
- AES3 digital inputs
- Two redundant Dante™ streams
- TI C6000 DSP platform architecture
- Power limiter (TruePower™, RMS voltage, RMS current) + Peak Limiter
- WiFi remote management via smartphone and tablet custom interface

VERSIONS

- Standard: Ethernet for control and full DSP functionality
- Option: Adds Dante with 2 redundant 1000Base-T ports

"Having so much power and versatility in such a compact package is truly amazing. The multiple configurations, clarity and volume levels we are able to achive with the X4 powering the SuperWedges is breathtaking. Literally the combo at high levels will give you an adrenaline rush they are so loud and clear." Dave Rat, Owner, Rat Sound.

POWERING RAT SOUND'S SUPERWEDGES

CHALLENGE
Deliver exceptional clarity and routing capabilities, along side with incredible amounts of output power, whilst keeping the size of the system down.

SOLUTION
Two Powersoft X4 Series Amplifier Platform, driving the new Rat Sound's Superwedges.

RESULT
The X4 delivers super detailed and highly customizable audio to the band by providing a solid processing platform in a compact 1 rack unit enclosure.
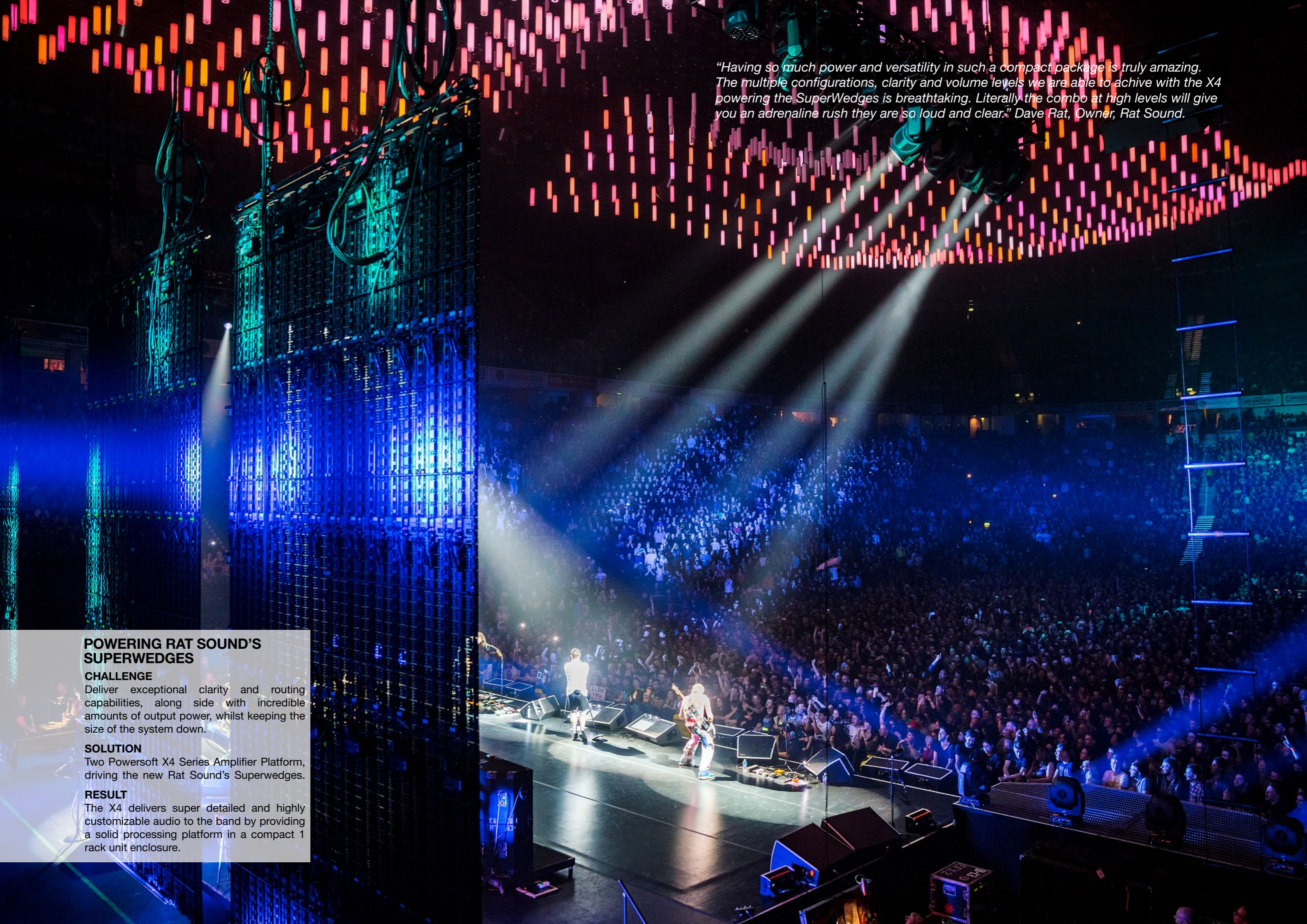
K
SERIES

FIELD PROVEN PERFORMANCES BUILT FOR THE MOST DEMANDING TOURING CONDITIONS

In use worldwide by leading touring and event sound companies, K Series is preferred among the top ranking system designers, sound engineers, and system techs on the road for making their lives easier, giving them reliable premier-grade power and headroom in the smallest possible package size.

2CH **SRM** **PFC** **DSP** optional **Armonía** Pro Audio Suite™ **1U**

KEY FEATURES

- Advanced switch-mode worldwide operating power supply
- Power Factor Correction PFC for low mains consumption and wide mains operating range
- Clip limiter: prevents severely clipped waveforms from reaching loudspeakers
- VHF protections: protects the loudspeakers against non musical high frequency signals
- Combo XLR/6.3mm jack Neutrik input connectors with link capability
- AES3 digital input
- LCD matrix interactive display
- Analog Devices SHARC® DSP architecture
- Interface available for MediaMatrix, Crestron, AMXcontrol, Q-SYS and monitoring systems

VERSIONS

- Standard: Analog inputs, full protection scheme
- Option: DSP with daisy chained 100Base-TX Ethernet with redundant digital AES3 audio on the unused pairs

PRODUCT RANGE

Model	2 Ω	4 Ω	8 Ω
K20	9000 W	5200 W	2700 W
K10	6000 W	4000 W	2000 W
K6	3600 W	2500 W	1300 W
K3	2800 W	2600 W	1400 W
K2	2400 W	1950 W	1000 W

M
SERIES

A TRUE CLASSIC OF CLASS D AMPLIFICATION, RELIABLE, AFFORDABLE, AND SAFE

The M Series represents a superb value from a premium brand with unparalleled efficiency, good for the environment and easy on the power bill. The size and weight is an absolute minimum thanks to the 1 U standard and the reduced depth of the equipment.

2or**4** channels **SRM** **PFC** **DSP** optional **Armonía** Pro Audio Suite™ **1U**

KEY FEATURES

- Fixed frequency switch mode output
- Patented output filter with ripple cancellation network
- Thermal protection: output stages operating temperature up to 75 °C (167 °F)
- Analog Devices ADAU 1701 DSP architecture
- Separate input/output EQ's with numerous filters of various types up to 48 dB/oct
- Neutrik XLR balanced inputs with loop thru XLR and Speakon outputs connectors
- Recessed stepped attenuators
- Delay for time alignment
- Interface available for MediaMatrix, Crestron, AMX, Q-SYS control and monitoring systems

VERSIONS

- Standard: Analog inputs, full protection scheme
- Option: DSP with 1 100Base-TX Ethernet port for control and monitoring

PRODUCT RANGE

Model	4 Ω	8 Ω
M50Q	1250 W	750 W
M28Q	700 W	360 W
M30D	1500 W	900 W
M20D	1200 W	600 W
M14D	700 W	360 W

SUPERBOWL 50

CHALLENGE
Deliver a flawless and immersive sound experience for 68.500 seats.

SOLUTION
Over a 120 K10 Amplifier Platforms, plus 8 custom M Force Subwoofers, drawing power exclusively from generators.

RESULT
The space saving, dependable, and easily controllable system seamlessly powered the entertainment for more than 111.9 millions viewers worldwide.

ARMONÍA
PRO AUDIO SUITE

REMOTE CONTROL AND MONITORING OF THE FULL RANGE OF POWERSOFT PRODUCTS.

Setting up and managing complex sound systems easily through a highly intuitive user interface has become more than a popular demand – it is reality.

Armonía Pro Audio Suite has raised the bar by offering an intuitive interface for parameters adjustment, a comprehensive control over the digital audio processing and complete real-time monitoring of the system's performances, making your system safer and better sounding, especially in combination with Powersoft DSP technology.

With Armonía, audio engineers have new and unique tools to significantly improve sonic performance and system reliability.

KEY FEATURES

- Armonía works with the full range of Powersoft products
- Armonía provides total system and sound control in real-time
- Output EQs, delays, and a highly sophisticated group of limiters
- Input EQ in three layers with hundreds of filters for individual tuning
- Ultimate protection: Peak, Clip and TruePower limiters plus RMS and Current
- Access Manager allows four access levels
- Complete integration with FIR Maker (FIR custom filters)
- Supported languages: English, German, Spanish, French, Italian, Polish, Russian and Chinese

TYPICAL ARMONÍA SETUP
Armonìa's interface is highly customizable, granting user friendliness and flexibility in all touring applications.

OPERATOR VIEW
Used in conjunction with the Access Manager, the Operator View enables the system administrator to tailor access credentials and limit functionality.
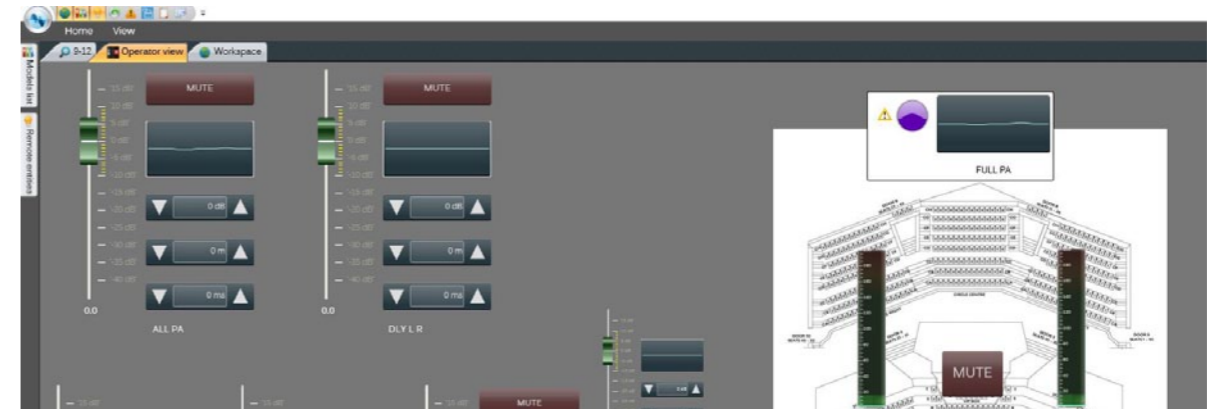
X SERIES FRONT PANEL WEBAPP
The X Series Front Panel webapp makes our X Series amplifier platforms remotely accessible and operable.

TECHNICAL SPECIFICATIONS CHART

		Power @ 2Ω	Power @ 4Ω	Power @ 8Ω	Bridged @ 4Ω	Bridged @ 8Ω	Max Output Voltage	Max Output Current	Current Draw* 115 V	230 V	Thermal Dissipation*	S/N Ratio	RU	Depth	Weight
X SERIES	X8	8 x 5200 W	8 x 3000 W	8 x 1600 W	4 x 10400 W	4 x 6000 W	175 V_{peak}	130 A_{peak}	32 A	18 A	1946 BTU/h	>110 dBA	2	495 mm/ 19.5"	24 kg / 52.9 lb
	X4	4 x 5200 W	4 x 3000 W	4 x 1600 W	2 x 10400 W	2 x 6000 W	175 V_{peak}	130 A_{peak}	18 A	9 A	1058 BTU/h	>110 dBA	1	495 mm/ 19.5"	15 kg / 33 lb
K SERIES	K20	2 x 9000 W	2 x 5200 W	2 x 2700 W	1 x 18000 W	1 x 10400 W	225 V_{peak}	125 A_{peak}	15.8 A	7.9 A	1590 BTU/h	>110 dBA	1	475 mm/ 18.7"	12 kg/ 26.5 lb
	K10	2 x 6000 W	2 x 4000 W	2 x 2000 W	1 x 12000 W	1 x 8000 W	200 V_{peak}	125 A_{peak}	12.2 A	6.1 A	1244 BTU/h	>110 dBA	1	475 mm/ 18.7"	12 kg/ 26.5 lb
	K6	2 x 3600 W	2 x 2500 W	2 x 1300 W	1 x 7200 W	1 x 5000 W	153 V_{peak}	125 A_{peak}	8.2 A	4.1 A	982 BTU/h	>110 dBA	1	475 mm/ 18.7"	12 kg/ 26.5 lb
	K3	2 x 2800 W	2 x 2600 W	2 x 1400 W	1 x 5600 W	1 x 5200 W	165 V_{peak}	102 A_{peak}	8.0 A	4.0 A	836 BTU/h	>106 dBA	1	380 mm/ 15"	8 kg / 17.7 lb
	K2	2 x 2400 W	2 x 1950 W	2 x 1000 W	1 x 4800 W	1 x 3900 W	140 V_{peak}	102 A_{peak}	6.3 A	3.1 A	722 BTU/h	>106 dBA	1	380 mm/ 15"	8 kg / 17.7 lb
M SERIES	M50Q	-	4 x 1250 W	4 x 750 W	-	2 x 2500 W	135 V_{peak}	65 A_{peak}	11.6 A	5.8 A	955 BTU/h	>110 dBA	1	358 mm/ 14.1"	7.3 kg / 16 lb
	M28Q	-	4 x 700 W	4 x 360 W	-	2 x 1400 W	85 V_{peak}	60 A_{peak}	7.48 A	3.74 A	785 BTU/h	>109 dBA	1	358 mm/ 14.1"	7.3 kg / 16 lb
	M30D	-	2 x 1500 W	2 x 900 W	-	1 x 3000 W	135 V_{peak}	65 A_{peak}	7.0 A	3.54 A	529 BTU/h	>108 dBA	1	358 mm/ 14.1"	7.3 kg / 16 lb
	M20D	-	2 x 1200 W	2 x 600 W	-	1 x 2400 W	116 V_{peak}	65 A_{peak}	5.0 A	2.54 A	529 BTU/h	>107 dBA	1	358 mm/ 14.1"	7.3 kg / 16 lb
	M14D	-	2 x 700 W	2 x 360 W	-	1 x 1400 W	85 V_{peak}	65 A_{peak}	3.8 A	1.9 A	368 BTU/h	>109 dBA	1	358 mm/ 14.1"	7.3 kg / 16 lb

*1/8 of max output power @ 4Ω

Data subject to change without notice.