LX-318C LX SERIES DATASHEET

Extremelly high power Cardioid subwoofer, self-powered (Class D switch mode power supply). DSP (FIR technology) controlled with 4200W amplification with PFC, 141dB SPL.

Key features

- Class D powered (tri-amplified)
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- High quality components
- Online monitoring available

Applications

- Theatres
- Sports stadiums
- Large discos
- Outdoor events
- Concert halls & auditoriums

General description & specifications

The LX-318C cardiod is the ideal solution for application in theatres, concert halls, stadiums, large discos, or any event where high precision line array is required. This subwoofer cabinet is the ideal combination where low frequency reinforcement is required for the LXV12.

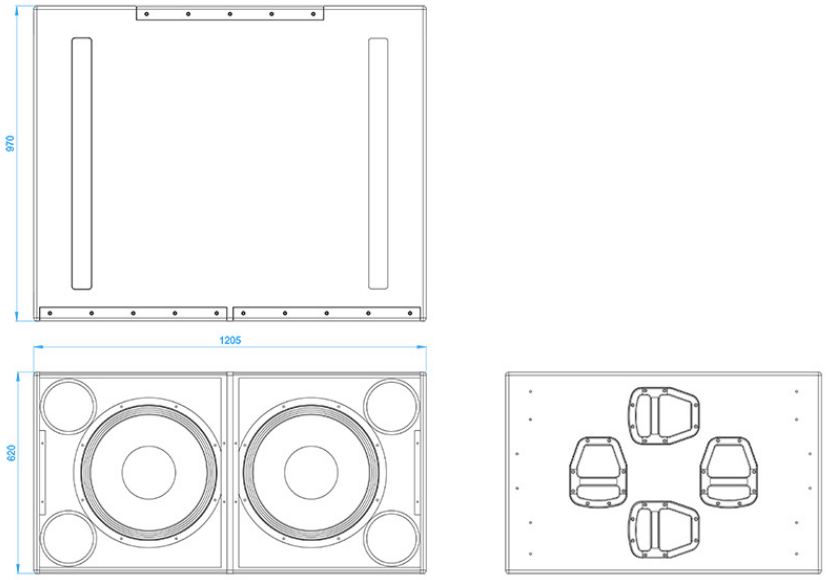
Ultra high power, cardiod, sub-bass cabinet with three 18" low frequency neodymium transducers with carbon fiber reinforced, straight ribbed cones and Double Silicon Spider (DSS) technology delivering extremely low distortion. The transducer cones are weather protected for outdoor use and optimized air flow reduces heat dissipation increasing power handling and lowering the power compression figure. Voice coil technology employs 2 layers of copper clad aluminium wire with triple roll, polycotton suspension. The system is powered with a total of 4200W of class D amplification with PFC (Power Factor Correction) and each cabinet has a DSP integrated. Other features include temperature sensor, fan speed control, inclinometer, Ethernet options and more.

The LX-318C cardiod cabinet is not a conventional cardiod but a '2 in 1'. Because of our sophisticated integrated processor the user can select between omnidirectional or cardiod coverage, activating the rear speaker as well as selecting the rear frequency they most want to cancel, increasing the front pressure and directivity and ensuring that rear sound does not spill on to the stage behind the subwoofer.

Technical Data

Components	
• Front	2 x 18" (5" voice coil) neodymium. DDS technology. Reinforced cone with carbon fiber
• Rear	1 x 18" (5" voice coil) neodymium. DDS technology. Reinforced cone with carbon fiber
Frequency range	Cardioid: 30 Hz - 100 Hz Omni: 30 Hz - 160 Hz
Frequency response	Cardioid: 32 Hz - 95 Hz (± 3dB) Omni: 32 Hz - 140 Hz (± 3dB)
Max SPL	138 dB / 141 dB peak
Coverage angle	Depending on selected DSP configuration
Power	4200 W Class D with switching power supply and PFC
Processing	56 bit Lynx dspb-22
Control	Temperature sensor – Fan Speed
Control connections	Ethernet (OCS) optional / USB (DSP programming)
AC Power	85 – 270V. 50/60 Hz with PFC
AC connections	32A Neutrik PowerCON NAC3FC-HC
Finish	Polyurea coating – white colour optional (RAL)
Material	18 mm premium birch plywood
Dimensions	620 x 1205 x 970 mm (H x W x D) without pins
Weight	112 kg (245 lbs)

Dimensional Drawing



Accessories

	BALL-PSR1020	Ball pin with thread for LX-V12 and LX-318C cabinets
	CA-LX318C	Transport dolly for up to 3 LX-318C
	ST-LX318CV	Connection system to link LX-318C with line array cabinets LX-V12 or LX-V8
	KV-318C	4 piece adaptator kit for flying LX-318C
	SV-LX318C	Flying frame for the LX-318C
	FD-1LXV318CNL	Rain cover for the back panel of the LX-318C
	FD-2LX318C FD-3LX318C	Nylon protection cover for 2 LX-318C cabinets Nylon protection cover for 3 LX-318C cabinets

Amplification & DSP

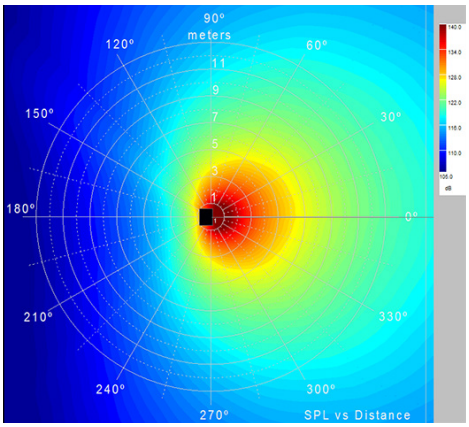
Tri-amplified Class D with switching power supply and PFC (Power Factor Correction). With PFC the power supply regulates itself when AC mains change, so the amp power output will not change with mains swinging.

This system is also very environmentally friendly with a reduction of approximately 40% of current draw. Includes two 1400W power modules, one for each front 18" transducer and one 1400W for the rear transducer.

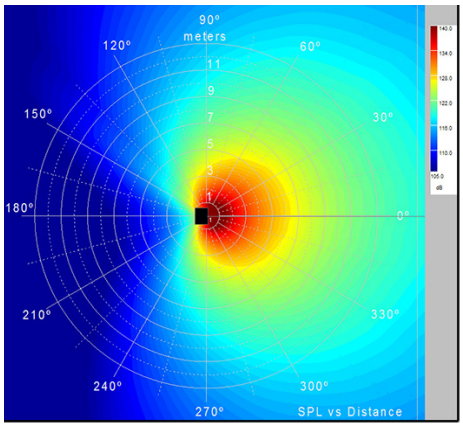
The amplification far exceeds the transducers needs thus resulting in high output, high damping factor and extremely low levels of distortion.

Horizontal Polars

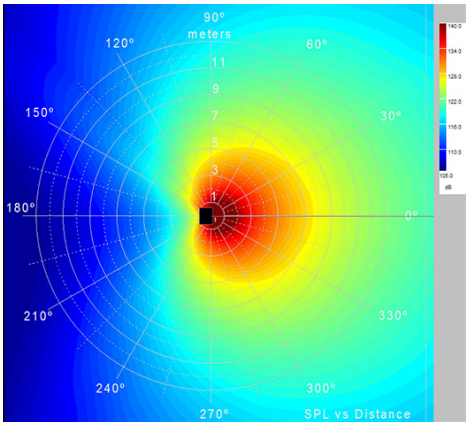
40 Hz



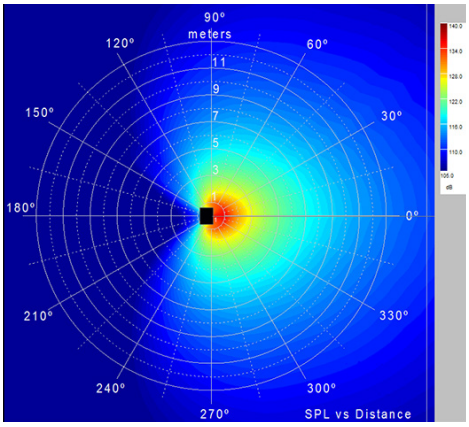
50 Hz



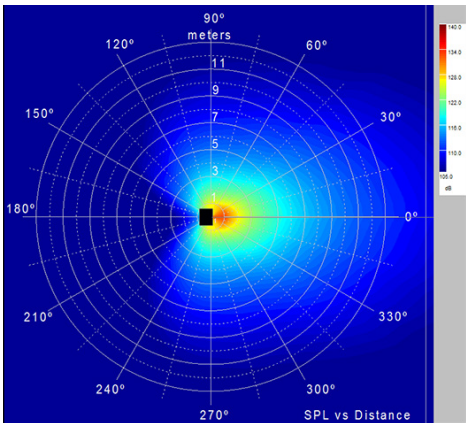
63 Hz



100 Hz



125 Hz



160 Hz