

XLS 12" Subwoofer



Type Number: 830500

Features:

This new series of state-of-the-art subwoofers continue to enhance Peerless' reputation for delivering the highest quality components for bass in the world. Called the XLS - for "Extra Long Stroke" - these new audio transducers add even more excursion, and completely eliminate distortion. See architecture notes for [XLS Platform](#)

Driver Highlights: Thick Nomex cone, 51 mm voice coil, ALP

See application notes for [XLS 12" subwoofer](#)

[Go to Architecture Notes](#)



Specs:

Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	4.7	ohm
Maximum impedance	Zo	64.2	ohm
DC resistance	Re	3.5	ohm
Voice coil inductance	Le	4.2	mH
Capacitor in series with x ohm	Cc	38	uF

T-S Parameters

Resonance Frequency	fs	18.1	Hz
Mechanical Q factor	Qms	3.7	
Electrical Q factor	Qes	0.21	
Total Q factor	Qts	0.2	
Force factor	Bl	17.6	Tm
Mechanical resistance	Rms	5.12	Kg/s
Moving mass	Mms	166.3	g
Suspension compliance	Cms	0.46	mm/N
Effective cone diameter	D	24.4	cm
Effective piston area	Sd	466	cm ²
Equivalent volume	Vas	139.2	ltrs
Sensitivity (2.83V/1m)		90.6	dB
Ratio BL/√(Re)		90	
Ratio fs/Qts	F	--	

Power handling

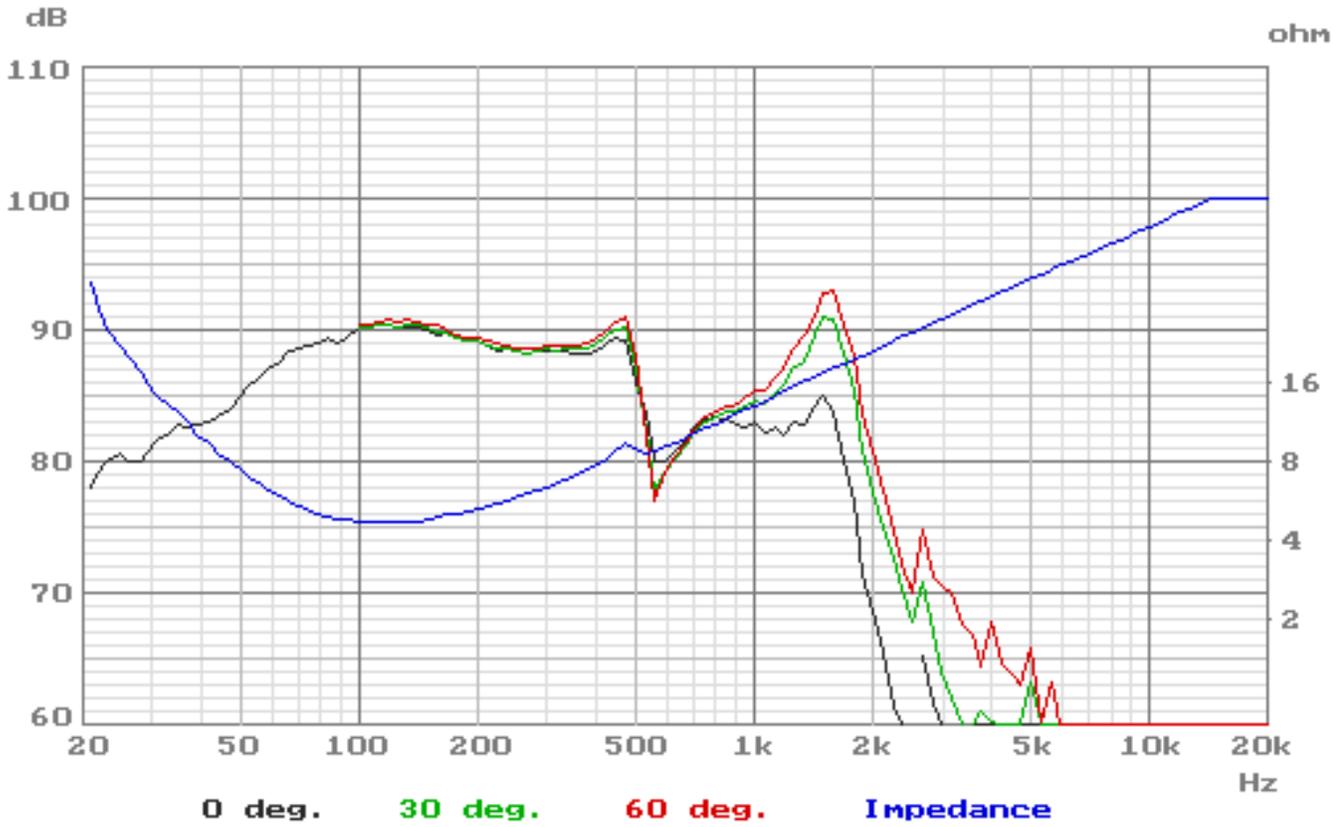
100h RMS noise test (IEC)	--	W
Long-term Max Power (IEC 18.3)	--	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power (IEC 18.2)	--	W

Voice Coil and Magnet Parameters

Voice coil diameter	51	mm
Voice coil height	33	mm
Voice coil layers	4	
Height of the gap	8	mm
Linear excursion +/-	--	mm
Max mech. excursion +/-	--	mm
Flux density of gap	1.04	mWb
Total useful flux	2.5	mWb
Diameter of magnet	147	mm
Height of magnet	35	mm
Weight of magnet	2.42	Kg

Notes:
IEC specs refer to IEC 60268-5 third edition.
All Tymphany products are RoHS compliant.

Frequency: 830500



Mechanical Dimensions:830500

