

# PROFESSIONAL SERIES

## LA 12850

A high power 12 inch woofer in a shallow cast frame designed to work in ultra-compact vented systems and allow very tight packaging in line arrays or other systems where overall depth is limited.

- 1600 W Program Power
- 12" Nominal Diameter
- 8 Ω

APPLICATION		ENCLOSURE	
Midrange	<input type="checkbox"/>	Sealed Box	<input type="checkbox"/>
Midbass	<input checked="" type="checkbox"/>	Vented Box	<input checked="" type="checkbox"/>
Woofer	<input checked="" type="checkbox"/>	Scoop Loading	<input type="checkbox"/>
Subwoofer	<input type="checkbox"/>	Horn Loading	<input checked="" type="checkbox"/>
Bass Guitar	<input type="checkbox"/>		



### SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1600 W
Nominal Power	800 W
Resonance	46 Hz
Usable Frequency Range	63 Hz – 2.1 kHz
Sensitivity*	95.9 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

### THIELE & SMALL PARAMETERS

Fs	46 Hz
Re	5.87 Ω
Le	0.96 mH
Qms	12.73
Qes	0.32
Qts	0.32
Vas	2.33 cu.ft., 66.07 liters
Vd	272.7 cc
Cms	0.16 mm/N
BL	19.51 T-M
Mms	73 grams
EBP	142
Xmax	5 mm
Sd	545.4 cm <sup>2</sup>
Xlim	14 mm

### MOUNTING INFORMATION

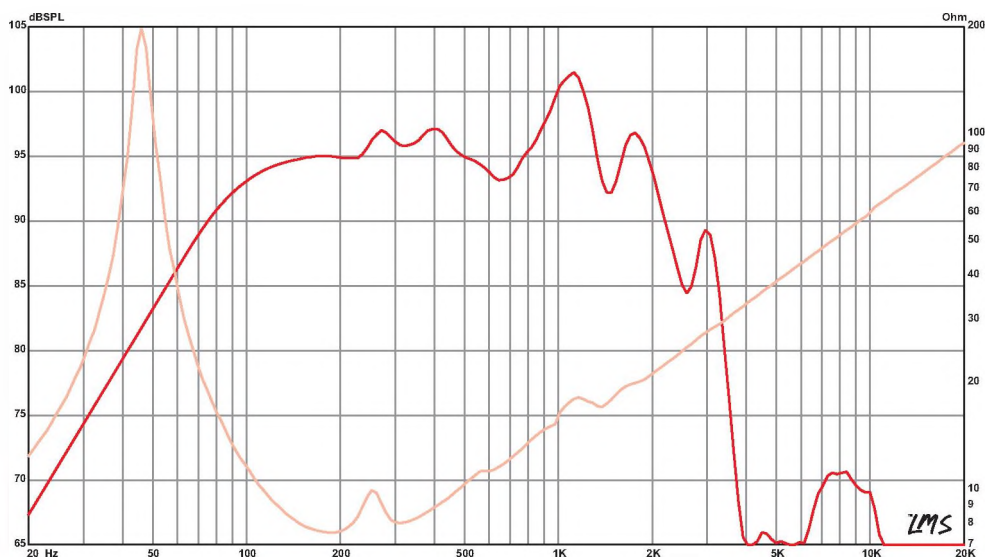
Recommended Enclosure Volume	
Sealed	N/A
Vented	31.15–77.87 liters, 1.1–2.75 cu.ft.
Driver Volume Displaced	0.102 cu.ft., 2.9 liters
Overall Diameter	12.32", 312.9 mm
Baffle Hole Diameter	11.08", 281.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.8 mm
Mounting Holes B.C.D.	11.69", 297 mm
Depth	4.7", 119.4 mm
Net Weight	20.5 lbs., 9.3 kg
Shipping Weight	22.25 lbs., 10.09 kg

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polymide former
- Ferrite magnet
- Core and Spider Land extended
- Die-cast aluminum basket
- Water resistant treated paper cone
- Paper cone edge
- Water resistant treated paper dust cap



### FREQUENCY RESPONSE & IMPEDANCE CURVE\*



\* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.