

# 12GU SPECIAL DUTY

**-Pro-**



This 12" high efficiency, full range loudspeaker features a 2" voice coil diameter, tweeter cone, and a powerful magnet system, which provide excellent sensitivity and good power capacity.

Modelo de 12" de alta eficiencia y amplia gama que utiliza una bobina de 2" de diámetro, un cono de agudos montado directamente sobre la bobina, y un sistema magnético de gran tamaño que le confiere una buena sensibilidad y potencia admisible importante.

## SPECIFICATIONS

Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms.
Power capacity*	100 w RMS
Program Power	200 Watts.
Sensitivity	101 dB, 2.83v @ 1m @ 2π
Frequency range	60-12000 Hz
Recom. enclosure vol.	50/120 l 1.77/4.24 ft. <sup>3</sup>
Voice coil diameter	52 mm. 2 in.
Magnetic assembly weight	3.85 kg. 8.5 lb.
BL factor	14.5 N/A
Moving mass	0.034 kg.
Voice coil length	11 mm.
Air gap height	7 mm.
X damage (peak to peak)	16 mm.

## MOUNTING INFORMATION

Overall diameter	320 mm. 12.6 in.
Bolt circle diameter	299 mm. 11.77 in.
Baffle cutout diameter:	
-Front mount	286 mm. 11.26 in.
-Rear mount	280 mm. 11.02 in.
Depth	125 mm. 4.88 in.
Volume displaced by driver	4.5 l 0.16 ft. <sup>3</sup>
Net weight	4.5 kg. 9.92 lb.
Shipping weight	5.1 kg. 11.24 lb.

## MATERIALS

Basket	Die cast aluminium
Cone	Paper
Surround	Paper
Voice coil	Copper
Magnet	Ferrite

## THIELE-SMALL PARAMETERS\*\*

Resonant Frequency, fs	70 Hz
D.C. Voice Coil Resistance, Re	7 ohms.
Mechanical Quality Factor, Qms	3.46
Electrical Quality Factor, Qes	0.551
Total Quality Factor, Qts	0.475
Equivalent Air Volume to Cms, Vas	60 l
Mechanical Compliance, Cms	152 μm/N
Mechanical Resistance, Rms	4.32 kg/s
Efficiency, ηo (%)	4
Effective Surface Area, Sd(m <sup>2</sup> )	0.053 m <sup>2</sup>
Maximum Displacement, Xmax	2 mm.
Displacement Volume, Vd	106 cm. <sup>3</sup>
Voice Coil Inductance, Le @ 1kHz	0.6 mH

## NOTES

\*The power capacity corresponds to the RMS maximum value that can dissipate the loudspeaker when a sinus signal is applied for a period of at least two hours.  
Program power is defined as the transducer's ability to handle normal music program material.

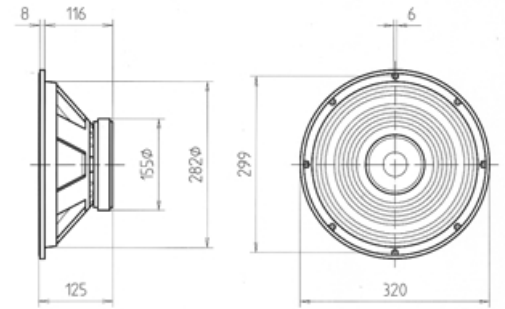
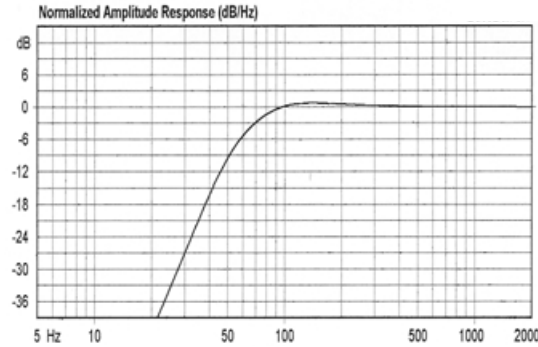
\*\* T-S parameters are measured after an exercise period using a preconditioning power test, using a velocity-current laser transducer, and will reflect the long term parameters, once the loudspeaker has been working for a short period of time.

## NOTAS

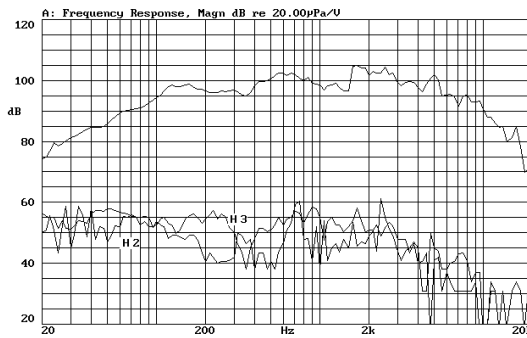
\*La potencia admisible corresponde a la máxima potencia RMS que puede disipar el altavoz durante al menos dos horas, cuando se le aplica una señal senoidal determinada.  
Por potencia programa se entiende la capacidad del altavoz en el manejo de señales transitorias, como sería el proporcionado por el contenido de un pasaje musical normal.

\* Los parámetros T-S han sido medidos después de un periodo de fatiga y estabilización de las suspensiones, mediante transductor laser de velocidad-corriente, y son el reflejo de los parámetros a largo plazo del altavoz, una vez éste haya sido instalado y haya trabajado en un corto espacio de tiempo.

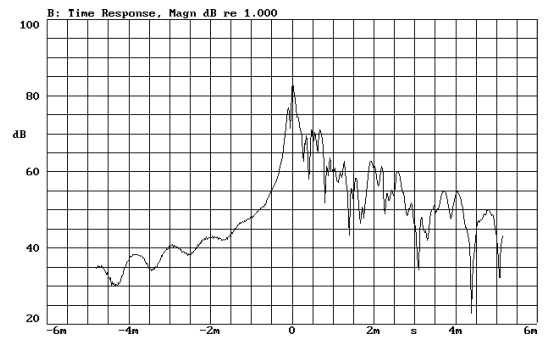
## PREDICTED LOW FREQUENCY RESPONSE • Bass-reflex cabinet, Vb=50.00 l, fb=65.0 Hz



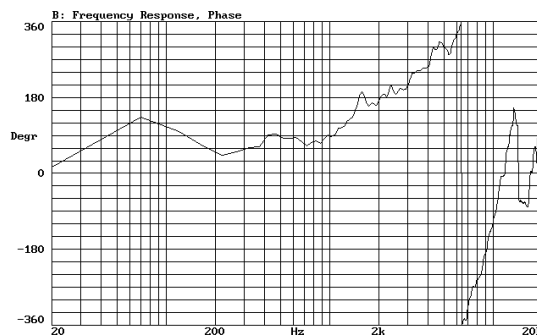
## FREQUENCY RESPONSE & DISTORTION CURVES, MAGN. On axis, 1w @ 1m.



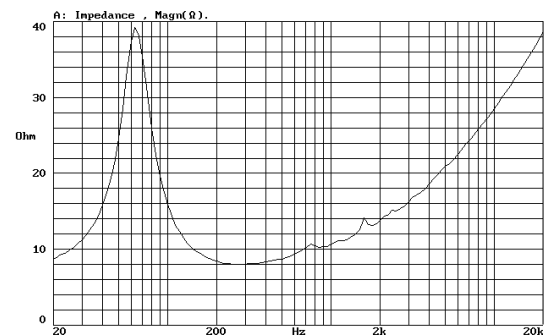
## TIME RESPONSE, MAGN.



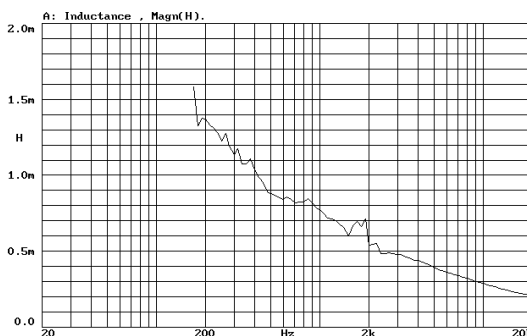
## FREQUENCY RESPONSE, PHASE. On axis, 1w @ 1m.



## FREE AIR IMPEDANCE CURVE



## VOICE COIL INDUCTANCE CURVE



## Re + Red(w) CURVE

