

# U8012

VERIFIED WITH  
**KLIPPEL**

☀️ 12 inch ☀️ 400 Watts  
☀️ 97.5 dB ☀️ 45 ~ 3000 Hz



## KEY FEATURES:

- ① 800 W continuous program power capacity
- ② Sensitivity: 97.5dB 1w/1m
- ③ Very smooth response up to 3000Hz
- ④ 76mm(3") inside/outside copper clad aluminum voice coil
- ⑤ Non pressed cone to supply additional damping
- ⑥ Unique eight-sided (Octagon) die-cast aluminum basket
- ⑦ FEA optimized magnetic circuit; a colorful aluminum ring on the back plate
- ⑧ Ideal for compact reflex enclosures and two way systems

## GENERAL SPECIFICATIONS

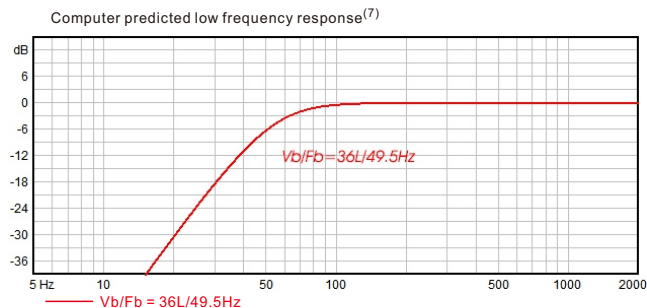
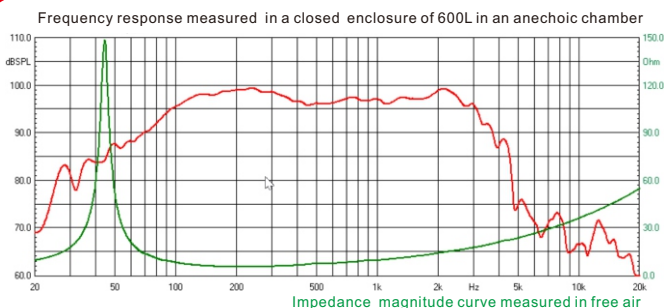
Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling <sup>1</sup>	400 Watts
Program Power <sup>2</sup>	800 Watts
Sensitivity(1w/1m) <sup>3</sup>	97.5 dB
Frequency Range <sup>4</sup>	45 ~ 3000Hz
Minimum Impedance(Zmin)	6.4 ohm
Voice Coil Diameter	76mm /3inch
Voice Coil Material	CCAW
Former Material	Glass Fiber
Voice Coil Winding Depth	19 mm
Number of layers	2(inside/outside)
Magnet gap depth	10 mm
Basket	Cast Aluminum
Flux Density	1.1 T
Magnet Out Diameter/Wgt	180mm / 68 oz

## THIELE - SMALL PARAMETERS<sup>5</sup>

Resonance frequency	Fs	45 Hz
DC resistance	Re	4.2 ohm
Mechanical factor	Qms	12.2
Electrical factor	Qes	0.35
Total factor	Qts	0.34
Mechanical compliance	Cms	0.18 mm/N
Mechanical resistance of total-driver losses	Rms	1.57 kg/s
Effective Moving Mass	Mms	67 g
Half-space efficiency	Eff	1.9%
BL Factor	BL	15.3 T.m
Equivalent Cas air load	Vas	75.8 liters
Effective piston area	Sd	0.0539 m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	± 7.1 mm
Max. excursion before damage	Xdam	±17.3mm
Voice coil inductance(1kHz)	Le	0.78 mH
Efficiency Bandwidth Product	EBP	128

## MOUNTING INFORMATION

Overall Diameter	312 mm
Bolt Circle Diameter	316 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	383 mm
Overall Depth	145 mm
Air volume occupied by driver	3.6 liters
Net Weight	6.5 kg
Shipping Weight	7.2 kg
Shipping Box	345x345x180 mm



## NOTES:

1. AES standard
2. Program Power is defined as 3 dB greater than the nominal power handling.
3. Sensitivity is measured at 1W input on rated impedance at 1m on axis.
4. Frequency range is defined as the band of frequencies delineated by the lower and upper limits where the output level drops by 10dB below the rated sensitivity.
5. Thiele-Small parameters are measured with Klippel DA LPM module after an AES power preconditioning test and represent the expected long term parameters after a short term of use.
6. The maximum linear excursion is calculated as:  $(Hvc-Hg)/2+Hg/4$  where Hvc is the voice coil depth and Hg is the gap depth.
7. Vb: Net internal volume of box after subtracting the volume of internal objects.