# BLIO-65

☀ *10 inch* ☀ *300 Watts*
☀ *94 dB* ☀ *61 ~ 4000 Hz*

## KEY FEATURES:

① 600W continuous program power capacity
② 94dB sensitivity, 1w/1m
③ 65mm(2.5") copper clad aluminum voice coil with fiberglass former
④ FEA optimized magnet system design for lower distortion and minimum power compression
⑤ Aluminum demodulating ring for lower distortion
⑥ Ideal for high quality compact 2 or 3-way systems

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Nominal Diameter | 250mm /10inch |
| Rated Impedance | 8 ohm |
| Nominal Power handling[1] | 300 Watts |
| Program Power[2] | 600 Watts |
| Sensitivity(1w/1m)[3] | 94 dB |
| Frequency Range[4] | 61 ~ 4000 Hz |
| Minimum Impedance(Zmin) | 6.6 ohm |
| Voice Coil Diameter | 65mm /2.5inch |
| Voice Coil Material | CCAW |
| Former Material | Glass Fiber |
| Voice Coil Winding Depth | 15 mm |
| Number of layers | 4 |
| Magnet gap depth | 9.5 mm |
| Basket | Cast Aluminum |
| Flux Density | 0.8T |
| Magnet Out Diameter/Wgt | 156mm / 52 oz |

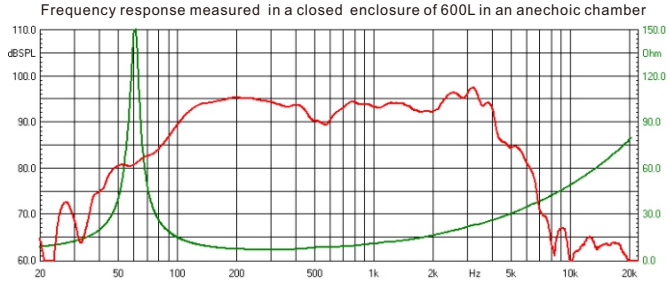
## THIELE – SMALL PARAMETERS[5]

| | | |
|---|---|---|
| Resonance frequency | Fs | 61 Hz |
| DC resistance | Re | 5.3 ohm |
| Mechanical factor | Qms | 10.7 |
| Electrical factor | Qes | 0.38 |
| Total factor | Qts | 0.36 |
| Mechanical compliance | Cms | 0.16 mm/N |
| Mechanical resistance of total-driver losses | Rms | 1.5 kg/s |
| Effective Moving Mass | Mms | 41 g |
| Half-space efficiency | Eff | 1.68% |
| BL Factor | BL | 15 T.m |
| Equivalent Cas air load | Vas | 29 liters |
| Effective piston area | Sd | 0.0356 $m^2$ |
| Max. linear excursion[6] | Xmax | ± 5.5 mm |
| Max. excursion before damage | Xdam | ±17.3mm |
| Voice coil inductance(1kHz) | Le | 1.03 mH |
| Efficiency Bandwidth Product | EBP | 162 |

## MOUNTING INFORMATION

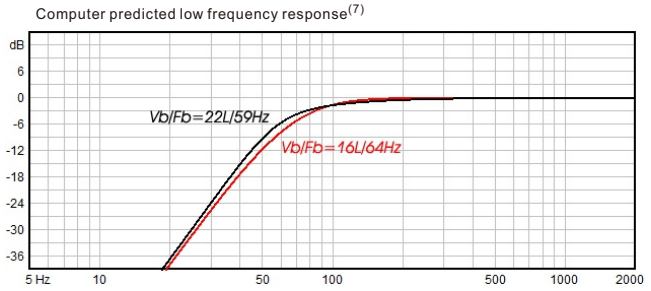
| | |
|---|---|
| Overall Diameter | 266 mm |
| Bolt Circle Diameter | 252 mm |
| Bolt Hole Diameter | 6.5 mm |
| Baffle Cutout Diameter | 232 mm |
| Overall Depth | 117 mm |
| Air volume occupied by driver | 2 liters |
| Net Weight | 4.9 kg |
| Shipping Weight | 5.5 kg |
| Shipping Box | 275x275x145mm |

Frequency response measured in a closed enclosure of 600L in an anechoic chamber




Impedance magnitude curve measured in free air

Computer predicted low frequency response[7]




**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. T/S parameters measured with laser system BEFORE preconditioning test.
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.