

# TB18-100 18"-750W-8Ω



## KEY FEATURES:

- 1500 W continuous program power capacity
- 96dB Sensitivity 1w/1m
- 36Hz ~1000Hz frequency response range
- 4" split winding copper voice coil
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression
- Aluminum demodulating ring for very low distortion
- Ideal for high quality bass-reflex subwoofer

## SPECIFICATIONS

### General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Nominal Power handling <sup>1</sup>	750	Watts
Program Power <sup>2</sup>	1500	Watts
Sensitivity(1w/1m) <sup>3</sup>	96	dB
Frequency Range <sup>4</sup>	36 - 1000	Hz
Minimum Impedance(Zmin)	6.6	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Former Material	Glass Fiber	
Voice Coil Winding Depth	31	mm
Number of layers	2(inside/outside)	
Magnet gap depth	15	mm
Basket	Cast Aluminum	
Flux Density	1.1	T
Magnet Weight/OD	150/220	oz/mm

### Thiele - Small Parameters<sup>5</sup>

Resonance frequency	Fs	36	Hz
DC resistance	Re	5.5	ohm
Mechanical factor	Qms	12.3	
Electrical factor	Qes	0.48	
Total factor	Qts	0.46	
Mechanical compliance	Cms	0.08	mm/N
Mechanical resistance of suspension losses	Rms	4.66	mech-ohm
Effective Moving Mass	Mms	249	gr
Half-space efficiency	Eff	1.5	%
BL Factor	BL	25.6	T.m
Equivalent Cas air load	Vas	158	liters
Effective piston area	Sd	0.1219	m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	12	mm
Voice coil inductance	Le1K	2.3	mH
Efficiency Bandwidth Product	EBP	75	

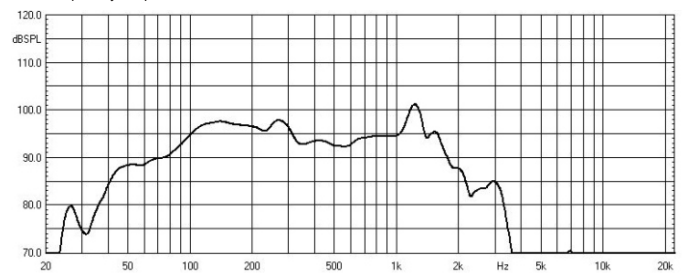
### Mounting Information

Overall Diameter	460	mm
Bolt Circle Diameter	442	mm
Bolt Hole Diameter	6.5	mm
Baffle Cutout Diameter	422	mm
Overall Depth	241	mm
Net Weight	15	kg
Shipping Weight	16.3	kg
Shipping Box	500x500x240	mm

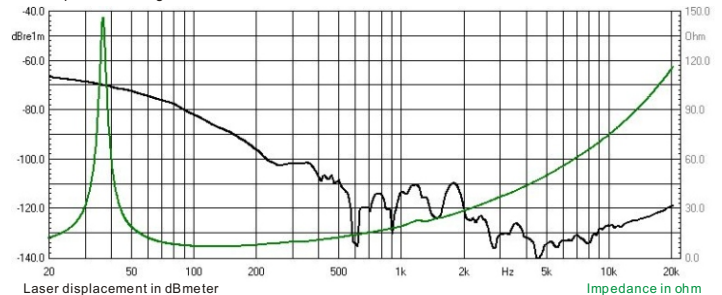
#### NOTES:

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. T/S parameters measured with laser system without preconditioning test at 23 Celsius degree environment.
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.

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<sup>(7)</sup>

