

# PAI2-50 / 8ohm

- ☀ 12 inch ☀ 200 Watts
- ☀ 95 dB ☀ 47 ~ 2600 Hz



### KEY FEATURES:

- ① 400 W continuous program power capacity
- ② 95dB Sensitivity 1w/1m
- ③ 47 ~ 2600Hz frequency response range
- ④ High temperature copper wire wounded on polyimide former
- ⑤ Long glassfiber impregnated cone to provide outstanding reliability and performance
- ⑥ Ideal for compact 2-way systems

### GENERAL SPECIFICATIONS

Nominal Diameter	300mm /12inch
Rated Impedance	8 ohm
Nominal Power handling <sup>1</sup>	200 Watts
Program Power <sup>2</sup>	400 Watts
Sensitivity(1w/1m) <sup>3</sup>	95 dB
Frequency Range <sup>4</sup>	47 ~ 2600Hz
Minimum Impedance(Zmin)	6.6 ohm
Voice Coil Diameter	50mm /2inch
Voice Coil Material	Copper
Former Material	Polyimide
Voice Coil Winding Depth	17 mm
Number of layers	2
Magnet gap depth	8 mm
Basket	Pressed Steel
Flux Density	1.1 T
Magnet Outer Diameter / Wgt	145mm / 42 oz

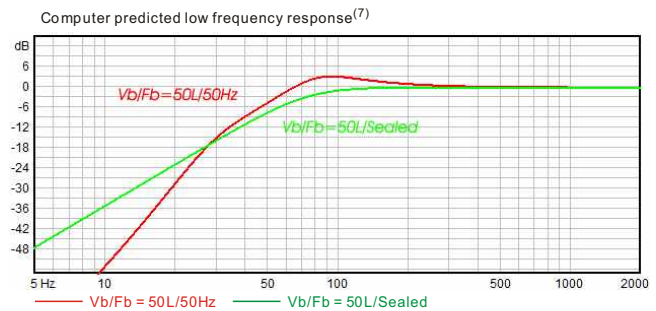
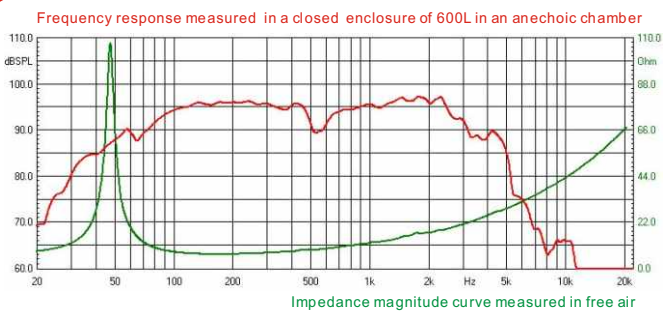
### THIELE - SMALL PARAMETERS<sup>5</sup>

Resonance frequency	Fs	47 Hz
DC resistance	Re	5.3 ohm
Mechanical factor	Qms	11.8
Electrical factor	Qes	0.61
Total factor	Qts	0.58
Mechanical compliance of suspension losses	Cms	0.2 mm/N
Effective Moving Mass	Mms	56 g
Half-space efficiency	Eff	1.3%
BL Factor	BL	12.1 T.m
Equivalent Cas air load	Vas	79 liters
Effective piston area	Sd	0.0531 m <sup>2</sup>
Max. linear excursion <sup>6</sup>	Xmax	6.5 mm
Voice coil inductance	Le1K	1.2 mH
Efficiency Bandwidth Product	EBP	77

### MOUNTING INFORMATION

Overall Diameter	311 mm
Bolt Circle Diameter	294 mm
Bolt Hole Diameter	6.5 mm
Baffle Cutout Diameter	279 mm
Overall Depth	127 mm
Net Weight	3.5 kg
Shipping Weight	4.2 kg
Shipping Box	345x345x1 80 mm

Also available in 4ohm, data upon request.



### 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 with a high level 25Hz sine wave 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.