

**Woofer 30W-100XL**
**Advantages**

Many people will know of the 30W-100 woofer. This famous design set new standards for transient response and power handling.

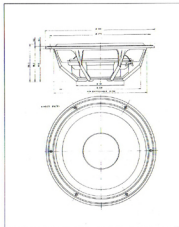
Introducing the 30W-100XL - based on the 30W-100 but with a more powerful magnet system giving a lower  $Q_t$ . 30W-100XL may be used ideally in larger vented cabinets.

The transient response, sensitivity, power handling and general flexibility are all excellent. 30W-100XL is perhaps the ultimate larger driver for Hi-Fi systems.

Three-way designs are recommended and first order crossover filters may be used with excellent results.

The special features include:

- A 100 mm voice coil
- PP cone in a one-piece construction
- Hexacoil technique voice coil
- Centre-magnet design
- Optimum impulse response
- Vented magnet system
- Wide dynamic range
- Very high power handling
- Good sensitivity
- Rigid alloy basket with aerodynamic ribs.


**Parameters 30W-100 XL**

Measured in free air and with impedance correction:

- 5R6 / 33  $\mu$ F for the 4 Ohm version
- 6R8 / 33  $\mu$ F for the 8 Ohm version

	4 Ohms	8 Ohms
Q, mechanical	2.3	2.4
Q, electrical	0.5	0.5
Q, total	0.4	0.4
Resonance frequency	Fs 22 Hz	22 Hz
Maximum impedance	Zmax 21 Ohms	30 Ohms
Moving mass	Mms 48 g	48 g
Force factor	BL 7.1 Tm	8.2 Tm
Equiv. volume	Vas 248 l	248 l
Effective cone area	Sd 400 cm <sup>2</sup>	400 cm <sup>2</sup>
Lin. excursion (p-p)	Xmax 9 mm	9 mm
Max. excursion (p-p)	28 mm	28 mm

**VOICE COIL:**

	100 mm	100 mm
Diameter	d 100 mm	100 mm
Length	h 17 mm	17 mm
Layers	n 2	2
Inductance (10kHz)	Le 0.45 mH	0.65 mH
Nom. impedance	Zvc 4 Ohms	8 Ohms
DC resistance	Re 3.75 Ohms	5.35 Ohms
Sensitivity	2.83V	see curve

**POWER HANDLING:**

	130 W	130 W
Nominal (long term)	130 W	1000 W
Transient	1000 W	1000 W
Net weight	2.3 kg	2.3 kg
Overall dimensions	Ø300x105 mm	Ø300x105 mm

