

Eton POW 16+: New Version of Successful Speaker

POW+ speaker for better sound

► The Eton POW series of speakers can rightly be described as legendary. The POW 16+ is now the latest incarnation in store.

Eton still always reminds older folk of the legendary, patented Hexacone, but it does not always have to be a high-end speaker to make a lasting impression. In fact the POW series may be the most popular of all time as they are outstanding for their particularly attractive price-performance. Super cheap is something else, but one should not forget that Eton still produces in Germany, so the drivers proudly boast a

„Made in Germany“ label. The POW cone of the 16 cm woofer with the characteristic embossment on the front has often been copied, which is also surely a form of recognition. The Eton original is made on a paper base and sealed with a soft rubber dustcap. The stable metal basket is taken 1:1 from the earlier POWs, there being nothing to improve on here. The centering spider and surround are made of high

The pivoting enclosure is familiar from the 25 mm tweeter; here a 28 mm one sits inside

quality materials, and the spider is not plastered with a coating like some other drivers. Completely new, however, is the tweeter, that has replaced the long established 25-millimeter woven fabric dome in the POW+. Here Eton has managed to house not only a larger 28-mm dome in the same enclosure, but also to equip the tweeter with a rear resonance chamber. The tweeter





The POW+ woofer has a nice and stable metal basket; the centering spider is high quality

enjoys an easy to fit cable crossover with a 12-dB filter made up of a film capacitor and ferrite inductor concealed under the heat shrink sleeve: no high-end, but effective. No one will complain about the crossover for the woofer, because it does not need one. Directly controlled, it develops a particularly good efficiency without the losses through a crossover. This is intentional for the POW+, with operation directly on the car radio without an additional amplifier being recommended.

Measurements and Sound

In front of the microphone we then measured an above-average 89 dB (2V, 1m). Responsible for that is a little trick, namely the low resistance of the voice coil of the 16 cm speaker: by making the R_e just 2.5 ohms, addition-

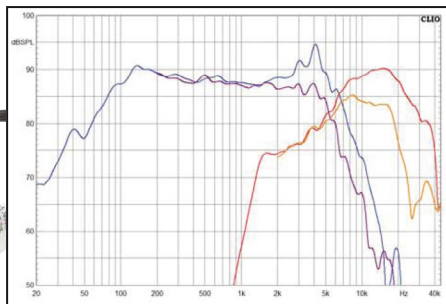
al power can be drawn from the amplifier. The new tweeter with rear resonance chamber has a resonance frequency of 1.4 kHz, which is considerably lower than with the usual 25 mm tweeter. This allows the Eton tweeter to be crossed-in at lower frequencies and to develop its full sound pressure earlier, which also helps it sonically in the transition region. As regards the sound, with the POW 16+ we are looking at probably the best POW system so far. It plays uncommonly musically, and always sounds discrete and pleasing. The lows reach amazingly deep down into the frequency basement, while voices and natural instruments sound just great. And the new tweeter is a stunner. Here we have the full richness of detail on the one hand, combined with an airiness, otherwise only possessed by very high-price tweeters. Moreover, the woofer and tweeter sound fantastic together, thereby making the sound appear from a single source.

Summary

Essentially simple, the POW 16+ is convincing under test for its quality in the details, and as regards sound it is on a par with more expensive systems. A successful performance.



Both chassis are very nicely finished — Eton still manufactures in Germany



The woofer is good-tempered and faultless, even without a crossover. The 28 mm tweeter is clean and unspectacular.



In the side view you can see that the tweeter is somewhat thicker due to the rear resonance chamber

Eton POW 16+

Price	about 270 Euro
Distributor	ACR, CH-5330 Zurzach
Hotline	info@eton-gmbh.eu
Internet	www.eton-gmbh.eu

Summary

▶ Sound quality	55 %	1,3	■ ■ ■ ■ ■	■
Bass	11 %	1,5	■ ■ ■ ■ ■	■
Neutrality	11 %	1,0	■ ■ ■ ■ ■	■
Transparency	11 %	1,0	■ ■ ■ ■ ■	■
Soundstaging	11 %	1,5	■ ■ ■ ■ ■	■
Dynamics	11 %	1,5	■ ■ ■ ■ ■	■
▶ Lab	30 %	1,5	■ ■ ■ ■ ■	■
Frequency response	10 %	1,5	■ ■ ■ ■ ■	■
max. volume	10 %	1,5	■ ■ ■ ■ ■	■
Distortion	10 %	1,5	■ ■ ■ ■ ■	■
▶ Practice	15 %	1,7	■ ■ ■ ■ ■	■
Crossover	10 %	2,0	■ ■ ■ ■ ■	■
Workmanship	5 %	1,0	■ ■ ■ ■ ■	■

Technical Data

Diameter TT	166 mm
Cutout diameter TT	143 mm
Mounting depth TT	66 mm
Magnet diameter	84 mm
Tweeter dome diameter	28 mm
Tweeter housing diameter	45 mm
Slope	-12 dB
Tweeter protection	-
Tweeter volume adjustment	-
Grill	-
other	-
Nominal impedance	3 ohms
DC resistance Rdc	2,51 ohms
Coil inductivity Le	0,27 mH
Coil diameter	25 mm
Cone surface Sd	137 cm ²
Resonance frequency Fs	72 Hz
Mechanical quality Qms	3,99
Electrical quality Qes	0,68
Total quality Qts	0,58
Equivalent volume Vas	10,7 l
Moving mass Mms	11,9 g
Rms	1,35 kg/s
Cms	0,41 mm/N
B*I	4,46 Tm
Pressure 2 V, 1 m	89 dB
Power handling	20 – 80 W

Emphaser POW 16+

Top-Class 1,4

CAR & HiFi 2/22

Price/performance: very good

"Quality and sound at a fair price."