Power BTE

Behind-The-Ear

E Series 3

Sweep™ Technology
An industry first that replaces difficult-to-adjust buttons and dials with an innovative control surface—so patients can make volume and memory adjustments with the sweep or touch of a finger

Feedback Canceller
Virtually eliminates annoying feedback

Environmental Adaptation
Continuously scans the environment and adapts appropriately for Quiet and Noise

Dynamic Directionality
Automatically adapts to ensure optimal performance in all listening situations

Tonal Indicators
Unique tones for memory, low battery, etc.

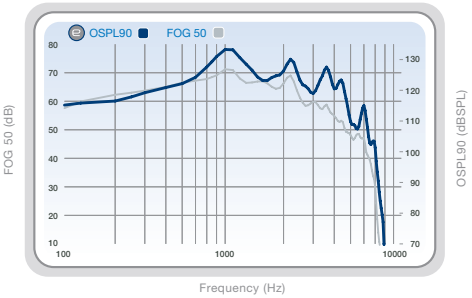
4 Memories Standard

Induction Coil

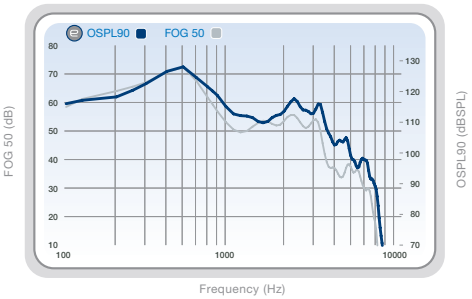
Automatic Coil

E Series Power BTE
ANSI/IEC Data

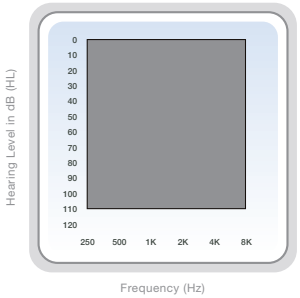
	Earhook		Thin Tube *(Size 3+, Occluded)*	
Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	133	138	129	132
HFA OSPL90 (dB SPL)	127	NA	113	NA
RTF OSPL90 (dB SPL)	NA	131	NA	118
Peak Gain (dB)	70	77	72	75
HFA Full-On Gain (dB)	66	NA	52	NA
RTF Full-On Gain (dB)	NA	74	NA	61
Frequency Range (Hz)	100 - 6000	100 - 6000	100 - 5800	100 - 5800
Reference Test Frequency (kHz)	NA	1.6	NA	1.6
HFA Frequencies (kHz)	1.0, 1.6, 2.5	NA	1.0, 1.6, 2.5	NA
Reference Test Gain (dB)	50	56	36	43
Harmonic Distortion				
500 Hz (%)	<4	<4	<1	<1
800 Hz (%)	<1	<1	<1	<1
1600 Hz (%)	<1	<1	<1	<1
Attack and Release Time (ANSI/IEC) – Test Mode				
Attack Time (ms)	22	5	22	5
Release Time 0.1s (ms)	5-150	5-250	5-150	5-250
Release Time 2.0s (ms)	5-150	5-250	5-150	5-250
Induction Coil Sensitivity				
HFA SPLITS (ANSI) (dB SPL)	112	NA	96	NA
MASL (IEC) (dB SPL)	NA	102	NA	91
ANSI/IEC Battery Current (mA)	1.8	1.8	1.8	1.8
Idle Current (mA)	1.5	1.5	1.5	1.5
Estimated Battery Life for 16-Hour Day				
13 Zinc Air (days)	9-12	9-12	9-12	9-12



OSPL90 (blue) and Full-On Gain (gray) curves for the E Series 3 Power BTE with Earhook.



OSPL90 (blue) and Full-On Gain (gray) curves for the E Series 3 Power BTE with Thin Tube.



E Series 3 Power BTE fitting range.

Measurement Conditions and Recommendations

The data for E Series are obtained and performance is expressed according to ANSI S3.22 (2003), ANSI S3.7 (1995), ANSI C63.19 (2007), IEC 60118-7 (2005), IEC 60711 (1981), DIN 45605 (1989), and IEC 60118-0 (1983) with Amendment 1 (1994-01). The Starkey proprietary Real Time Analyzer and the Starkey Automated Design Verification Test System (SADVTS) comprise the basic test equipment. Data may be subject to change with product refinement.

Because of the adaptive signal processing capabilities of E Series hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. E Series hearing instruments may be set to test mode with Inspire® by reading the hearing aid and selecting the "Hearing Aid Test" screen from the menu on the left side of the Inspire window, then selecting the "Full on Gain" button.

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