

OTICON | Play PX

Technical data sheet

miniRITE T

60 85 100 105



	Play PX 1	Play PX 2	
Speech Understanding	MoreSound Intelligence™	Level 1	Level 3
	- Environment configuration	5 Options	3 Options
	- Virtual Outer Ear	3 Configurations	1 Configuration
	- Spatial Balancer	100%	60%
	- Neural Noise Suppression, Difficult / Easy	10 dB / 4 dB	6 dB / 0 dB
	- Sound Enhancer	3 Configurations	1 Configuration
	MoreSound Amplifier™	•	•
	Feedback Prevention	MoreSound Optimizer™ & Feedback shield	MoreSound Optimizer™ & Feedback shield
	Spatial Sound™	4 Estimators	2 Estimators
	Soft Speech Booster	•	•
Sound Quality	Frequency lowering	Speech Rescue™	Speech Rescue™
	Clear Dynamics	•	-
	Better-Ear Priority	•	-
	Fitting Bandwidth*	10 kHz	8 kHz
	Bass Boost (streaming)	•	•
Listening Comfort	Processing Channels	64	48
	Transient Noise Management	4 configurations	3 configurations
Optimising Fitting	Wind Noise Management	•	•
	Fitting Bands	24	18
	REM Autofit	Verifit®LINK, IMC 2**	Verifit®LINK, IMC 2**
	Paediatric Fitting Mode	•	•
	DSL Fitting Range***	•	•
Designed for children	Fitting Formulas	DSL v5.0, NAL-NL 1/ NAL-NL 2, VAC+	DSL v5.0, NAL-NL 1/ NAL-NL 2, VAC+
	LED	•	•
	Biological safe	•	•
	Nano coating	•	•
	Colour options	12	12
	Hands-free communication****	•	•
	Direct streaming*****	•	•
	Edumic	•	•
Oticon ON app	•	•	

* Bandwidth accessible for gain adjustments during fitting

** Inter Module Communication 2

*** Available in this Technical Data sheet and Oticon Play PX Product Guide

**** Available for Oticon Play PX from FW 1.1 with selected iPhone models

***** From iPhone®, iPad®, iPod touch®, and selected Android™ devices

Operating Conditions

Temperature: +1°C to +40°C (34°F to 104°F)

Humidity: 5% to 93% relative humidity, non-condensing

Atmospheric pressure: 700 hPa to 1060 hPa

Storage and transportation conditions

Temperature and humidity should not exceed the below limits for extended periods during transportation and storage.

Transportation

Temperature: -25°C to +60°C (-13°F to 140°F)

Humidity: 5% to 93% relative humidity, non-condensing

Atmospheric pressure: 700 hPa to 1060 hPa

Storage

Temperature: -25°C to +60°C (-13°F to 140°F)

Humidity: 5% to 93% relative humidity, non-condensing

Atmospheric pressure: 700 hPa to 1060 hPa

Oticon Play PX miniRITE T offers a discreet design with LED-light to make handling easy. The style features telecoil and a double push-button, and is powered by a disposable zinc-air battery. It is a Made for iPhone® hearing aid and compatible with the new Android™ protocol for Audio Streaming for Hearing Aids (ASHA) - making it possible to stream directly from iPhone, iPad®, iPod touch® and selected Android devices.

MoreSound Intelligence™ creates a more precise and natural representation of individual sounds with clearer and more distinct contrasts providing access to all relevant sounds.

MoreSound Amplifier™ analyses details in sound, and optimally amplifies them for the brain to have access to relevant information.

Oticon Play PX is built on the innovative Polaris™ platform, which uses a Deep Neural Network to rapidly and optimally manage incoming sounds based on individual needs. New features can be added and updates performed wirelessly.

General features:

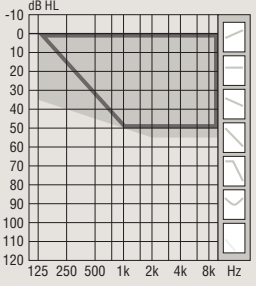

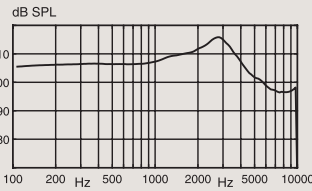
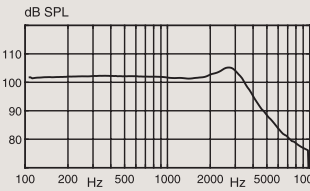
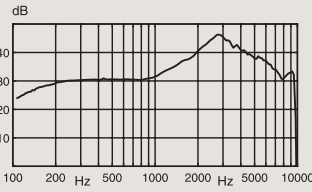
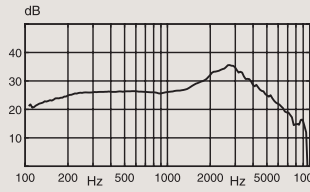
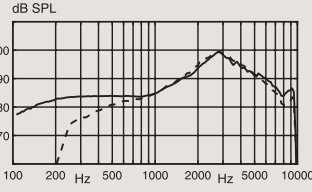
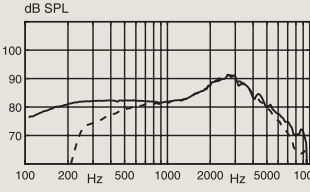
- Digital Programmable
- Automatic or Manual Volume Control
- Maximum Output Control System
- MPO-Maximum Power Output
- GC-Gain Control
- AGC-Automatic Gain Control
- Noise Reduction
- Feedback Management
- Dual Microphone
- FM Compatible (with Telecoil)
- 4 Programs

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For information on compatibility, please visit www.oticon.global/compatibility

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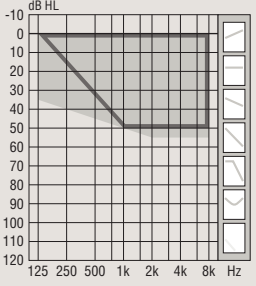

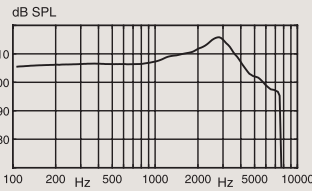
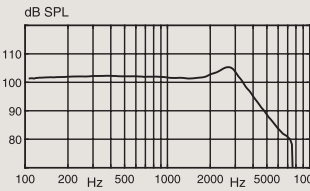
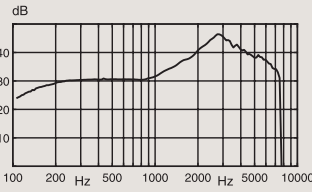
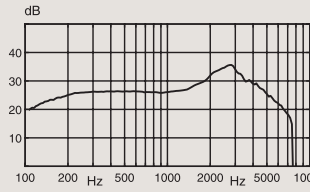
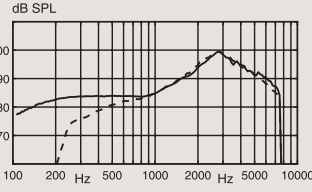
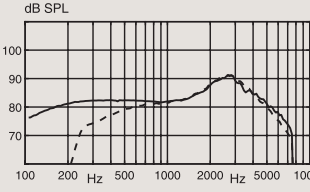
		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 <p>DSL Fitting Range</p> <p> <input checked="" type="checkbox"/> Mould, Bass & Power dome <input type="checkbox"/> OpenBass dome </p> <p>Technical information Omnidirectional mode is used unless otherwise stated.</p>		OSPL90 	OSPL90 
		Full-on gain 	Full-on gain 
	Frequency response  <p> — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m </p>	Frequency response 	
OSPL90	Peak	116 dB SPL	105 dB SPL
	1600 Hz	110 dB SPL	102 dB SPL
	HFA-OSPL90	111 dB SPL	103 dB SPL
Full-on gain ¹	Peak	46 dB	36 dB
	1600 Hz	37 dB	29 dB
	HFA-FOG	38 dB	30 dB
Reference test gain		30 dB	26 dB
Frequency range		100-9600 Hz	100-9400 Hz
Telecoil output (1600 Hz)	1 mA/m field	68 dB SPL	-
	10 mA/m field	88 dB SPL	-
	SPLITS L/R	-	85/85 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	< 2 %	< 2 %
	800 Hz	< 3 %	< 2 %
	1600 Hz	< 2 %	< 2 %
Equivalent input noise level	Omni	18 dB SPL	16 dB SPL
	Dir	26 dB SPL	27 dB SPL
Battery consumption ²	Typical	2.3 mA	2.2 mA
	Quiescent	2.2 mA	2.2 mA
Battery life, artificial measurement, hours ³		80	80
Expected battery life, hours (battery size 312 - IEC PR41) ⁴		55-60	

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

2) Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of minimum 3 minutes.

3) Based on the standardised battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.

4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 <p>DSL Fitting Range</p> <p> <input checked="" type="checkbox"/> Mould, Bass & Power dome <input type="checkbox"/> OpenBass dome </p> <p>Technical information Omnidirectional mode is used unless otherwise stated.</p>		OSPL90 	OSPL90 
		Full-on gain 	Full-on gain 
		Frequency response  <p> — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m </p>	Frequency response 
OSPL90	Peak	116 dB SPL	105 dB SPL
	1600 Hz	110 dB SPL	102 dB SPL
	HFA-OSPL90	111 dB SPL	103 dB SPL
Full-on gain ¹	Peak	46 dB	36 dB
	1600 Hz	37 dB	29 dB
	HFA-FOG	38 dB	30 dB
Reference test gain		30 dB	26 dB
Frequency range		100-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	1 mA/m field	68 dB SPL	-
	10 mA/m field	88 dB SPL	-
	SPLITS L/R	-	85/85 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	< 2 %	< 2 %
	800 Hz	< 3 %	< 2 %
	1600 Hz	< 2 %	< 2 %
Equivalent input noise level	Omni	18 dB SPL	16 dB SPL
	Dir	26 dB SPL	27 dB SPL
Battery consumption ²	Typical	2.2 mA	2.2 mA
	Quiescent	2.2 mA	2.2 mA
Battery life, artificial measurement, hours ³		80	80
Expected battery life, hours (battery size 312 - IEC PR41) ⁴		55-60	

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

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<p>85</p> <p>DSL Fitting Range</p> <p> <input checked="" type="checkbox"/> Mould, Bass & Power dome <input type="checkbox"/> OpenBass dome </p> <p>Technical information Omnidirectional mode is used unless otherwise stated.</p>		OSPL90 	OSPL90
		Full-on gain 	Full-on gain
		Frequency response <p> — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m </p>	Frequency response
		Peak OSPL90 1600 Hz HFA-OSPL90	127 dB SPL 121 dB SPL 122 dB SPL
Full-on gain ¹ Peak 1600 Hz HFA-FOG	66 dB 53 dB 56 dB	55 dB 45 dB 48 dB	
Reference test gain		46 dB	37 dB
Frequency range		100-9500 Hz	100-8900 Hz
Telecoil output (1600 Hz)	1 mA/m field	84 dB SPL	-
	10 mA/m field	104 dB SPL	-
	SPLITS L/R	-	96/96 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	< 2 %	< 2 %
	800 Hz	< 4 %	< 2 %
	1600 Hz	< 5 %	< 2 %
Equivalent input noise level	Omni	21 dB SPL	17 dB SPL
	Dir	29 dB SPL	27 dB SPL
Battery consumption ²	Typical	2.4 mA	2.4 mA
	Quiescent	2.2 mA	2.2 mA
Battery life, artificial measurement, hours ³		75	75
Expected battery life, hours (battery size 312 - IEC PR41) ⁴		50-60	

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

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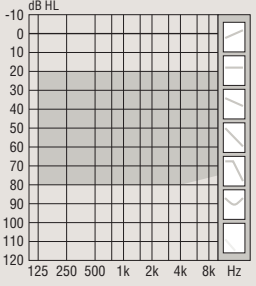

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<p>85</p> <p>DSL Fitting Range</p> <p>— Mould, Bass & Power dome □ OpenBass dome</p> <p>Technical information Omnidirectional mode is used unless otherwise stated.</p>		<p>OSPL90</p> <p>Full-on gain</p> <p>Frequency response</p> <p>— Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m</p>	<p>OSPL90</p> <p>Full-on gain</p> <p>Frequency response</p>	
	OSPL90	Peak 1600 Hz HFA-OSPL90	127 dB SPL 121 dB SPL 122 dB SPL	117 dB SPL 113 dB SPL 114 dB SPL
	Full-on gain ¹	Peak 1600 Hz HFA-FOG	66 dB 53 dB 56 dB	55 dB 45 dB 48 dB
	Reference test gain		46 dB	37 dB
Frequency range		100-7500 Hz	100-7500 Hz	
Telecoil output (1600 Hz)	1 mA/m field 10 mA/m field SPLITS L/R	84 dB SPL 104 dB SPL -	- - 96/96 dB SPL	
Total harmonic distortion (Input 70 dB SPL)	500 Hz 800 Hz 1600 Hz	< 2 % < 4 % < 5 %	< 2 % < 2 % < 2 %	
Equivalent input noise level	Omni Dir	21 dB SPL 28 dB SPL	17 dB SPL 27 dB SPL	
Battery consumption ²	Typical Quiescent	2.3 mA 2.2 mA	2.4 mA 2.2 mA	
Battery life, artificial measurement, hours ³		75	75	
Expected battery life, hours (battery size 312 - IEC PR41) ⁴		50-60		

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

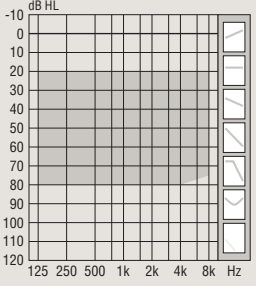

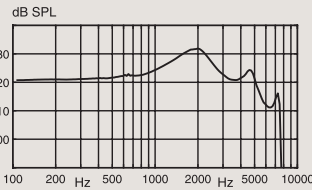
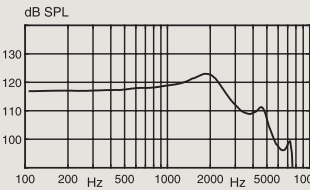
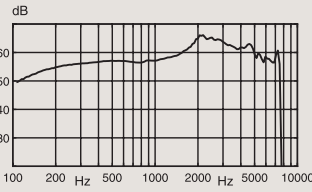
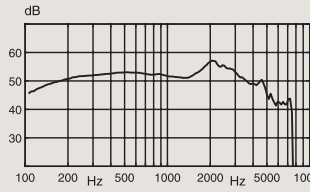
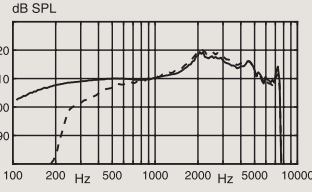
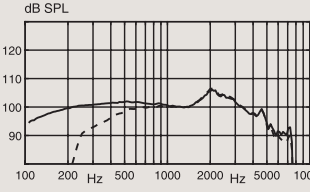
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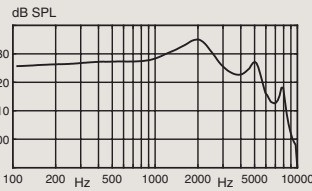
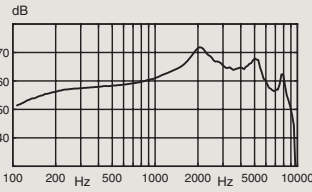
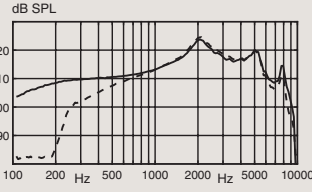
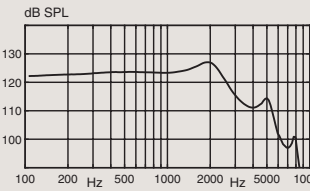
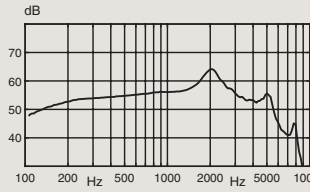
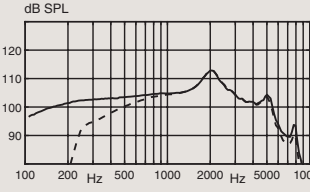
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 <p>100</p>  <p>DSL Fitting Range</p> <p>Power flex mould, Bass & Power dome</p> <p>Technical information Omnidirectional mode is used unless otherwise stated.</p> <p>Warning to the hearing aid dispenser The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.</p> <p>— Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m</p>	OSPL90	OSPL90	
	OSPL90	132 dB SPL	123 dB SPL
	HFA-OSPL90	127 dB SPL	119 dB SPL
	Full-on gain ¹	66 dB	57 dB
Full-on gain ¹	60 dB	53 dB	
HFA-FOG	61 dB	53 dB	
Reference test gain	53 dB	42 dB	
Frequency range	100-8900 Hz	100-7500 Hz	
Telecoil output (1600 Hz)	91 dB SPL	-	
10 mA/m field	111 dB SPL	-	
SPLITS L/R	-	101/101 dB SPL	
Total harmonic distortion (Input 70 dB SPL)	< 9 %	< 2 %	
500 Hz	< 6 %	< 2 %	
800 Hz	< 3 %	< 2 %	
1600 Hz	17 dB SPL	16 dB SPL	
Equivalent input noise level	25 dB SPL	28 dB SPL	
Dir	2.2 mA	2.4 mA	
Battery consumption ²	2.2 mA	2.2 mA	
Typical	80	75	
Quiescent	50-60		
Battery life, artificial measurement, hours ³	50-60		
Expected battery life, hours (battery size 312 - IEC PR41) ⁴	50-60		

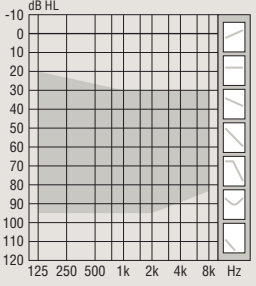

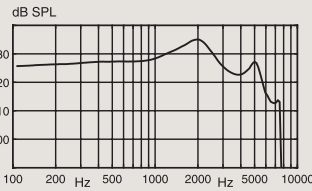
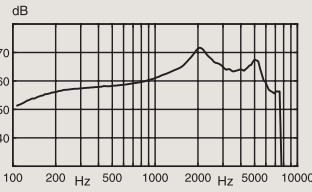
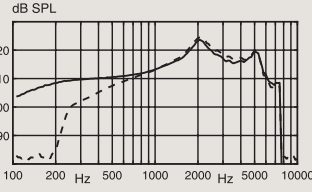
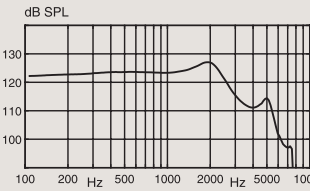
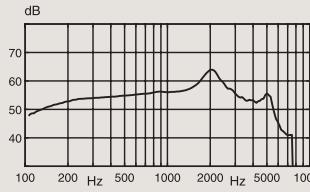
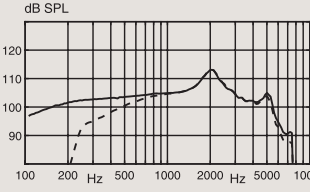
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
 2) Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of minimum 3 minutes.
 3) Based on the standardised battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
 4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 <p>DSL Fitting Range</p> <p>Power flex mould, Bass & Power dome</p>		<p>OSPL90</p> 	<p>OSPL90</p> 
		<p>Full-on gain</p> 	<p>Full-on gain</p> 
<p>Technical information Omnidirectional mode is used unless otherwise stated.</p> <p>Warning to the hearing aid dispenser The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.</p> <p>— Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m</p>		<p>Frequency response</p> 	<p>Frequency response</p> 
OSPL90	Peak 1600 Hz HFA-OSPL90	132 dB SPL 130 dB SPL 127 dB SPL	123 dB SPL 122 dB SPL 119 dB SPL
Full-on gain ¹	Peak 1600 Hz HFA-FOG	66 dB 60 dB 61 dB	57 dB 53 dB 53 dB
Reference test gain		53 dB	42 dB
Frequency range		100-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	1 mA/m field 10 mA/m field SPLITS L/R	91 dB SPL 111 dB SPL -	- - 101/101 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz 800 Hz 1600 Hz	<9 % <6 % <3 %	<2 % <2 % <2 %
Equivalent input noise level	Omni Dir	16 dB SPL 25 dB SPL	16 dB SPL 28 dB SPL
Battery consumption ²	Typical Quiescent	2.2 mA 2.2 mA	2.3 mA 2.2 mA
Battery life, artificial measurement, hours ³		80	75
Expected battery life, hours (battery size 312 - IEC PR41) ⁴		50-60	

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OSPL90	Peak 1600 Hz HFA-OSPL90	135 dB SPL 133 dB SPL 131 dB SPL	127 dB SPL 126 dB SPL 123 dB SPL
Full-on gain ¹	Peak 1600 Hz HFA-FOG	72 dB 66 dB 65 dB	64 dB 59 dB 58 dB
Reference test gain		58 dB	47 dB
Frequency range		100-9100 Hz	100-7900 Hz
Telecoil output (1600 Hz)	1 mA/m field 10 mA/m field SPLITS L/R	96 dB SPL 116 dB SPL -	- - 106/106 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz 800 Hz 1600 Hz	< 4 % < 4 % < 4 %	< 2 % < 2 % < 2 %
Equivalent input noise level	Omni Dir	15 dB SPL 24 dB SPL	16 dB SPL 27 dB SPL
Battery consumption ²	Typical Quiescent	2.3 mA 2.2 mA	2.4 mA 2.2 mA
Battery life, artificial measurement, hours ³		80	75
Expected battery life, hours (battery size 312 - IEC PR41) ⁴		50-60	

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 <p>105</p>  <p>DSL Fitting Range</p> <p>Power flex mould</p> <p>Technical information Omnidirectional mode is used unless otherwise stated.</p> <p>Warning to the hearing aid dispenser The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.</p> <p>— Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m</p>		<p>OSPL90</p>  <p>Full-on gain</p>  <p>Frequency response</p> 	<p>OSPL90</p>  <p>Full-on gain</p>  <p>Frequency response</p> 
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