OTICON | **Opn S**

# Technical data sheet

## miniRITE

60 85 100 105

| | | Oticon Opn S 1 | Oticon Opn S 2 | Oticon Opn S 3 |
|---|---|---|---|---|
| Speech Understanding | OpenSound Navigator™ | Level 1 | Level 2 | Level 3 |
| | - Balancing power effect | 100% | 50% | 50% |
| | - Max. noise removal | 9 dB | 5 dB | 3 dB |
| | OpenSound Optimizer™ | • | • | • |
| | Speech Guard™ LX | Level 1 | Level 2 | Level 3 |
| | Spatial Sound™ LX | 4 estimators | 2 estimators | 2 estimators |
| | Soft Speech Booster LX | • | • | • |
| | Speech Rescue™ LX | • | • | • |
| Sound Quality | Clear Dynamics | • | • | - |
| | Spatial Noise Management | • | • | - |
| | Fitting Bandwidth* | 10 KHz | 8 KHz | 8 KHz |
| | Processing Channels | 64 | 48 | 48 |
| | Bass Boost (streaming) | • | • | • |
| Listening Comfort | Transient Noise Management | 4 configurations | On/Off | On/Off |
| | Feedback shield LX | • | • | • |
| | Wind Noise Management | • | • | • |
| Personalization & Optimizing Fitting | YouMatic™ LX | 3 configurations | 2 configurations | 1 configuration |
| | Fitting Bands | 16 | 14 | 12 |
| | Multiple Directionality Options | • | • | • |
| | Adaptation Management | • | • | • |
| | Oticon Firmware Updater | • | • | • |
| | Fitting Formulas | VAC+, NAL-NL1 + 2, DSL v5.0 | VAC+, NAL-NL1 + 2, DSL v5.0 | VAC+, NAL-NL1 + 2, DSL v5.0 |
| Connecting to the World | Stereo streaming (2.4 GHz) | • | • | • |
| | Oticon ON App | • | • | • |
| | ConnectClip | • | • | • |
| | Remote Control 3.0 | • | • | • |
| | TV Adapter 3.0 | • | • | • |
| | Phone Adapter 2.0 | • | • | • |
| | Tinnitus SoundSupport™ | • | • | • |

* Bandwidth accessible for gain adjustments during fitting

**Operating conditions**
Temperature: +1°C to +40°C
Relative humidity: 5% to 93%, non-condensing

**Storage and transportation conditions**
Temperature and humidity should not exceed the following limits for extended periods during transportation and storage.
Temperature: -25°C to +60°C
Relative humidity: 5% to 93%, non-condensing

Oticon Opn S™ miniRITE offers discreet design with 312 battery and single push button.

OpenSound Navigator™ helps users to select and understand speech in all types of environments by balancing the sound sources and attenuating noise.

OpenSound Optimizer™ improves users listening experience and comfort by blocking feedback and securing the targeted amplification of sound sources.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity with stereo streaming directly from digital devices.

Oticon Opn S is built on the powerful Velox S™ platform which has a programmable firmware architecture, supporting future performance updates.

Oticon BrainHearing™ Technology Powered by Velox S™

TwinLink NFMI + 2.4 GHz

Made for iPhone | iPad | iPod

IP68

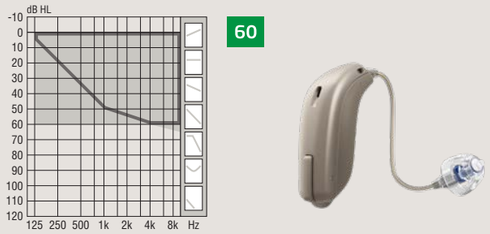
For information on compatibility, please visit www.oticon.ca/connectivity

oticon PEOPLE FIRST

# Oticon Opn S 1

# miniRITE 60

**Technical data**




Mould, Bass & Power dome

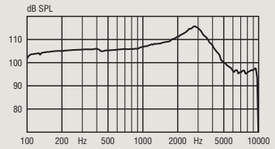
Open dome

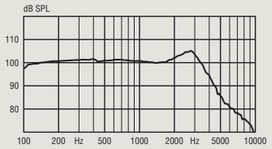
**Technical information**
Omnidirectional mode is used unless otherwise stated.

**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

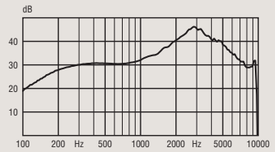
**2CC Coupler**
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

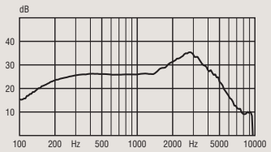
OSPL90



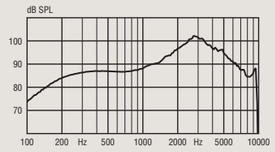



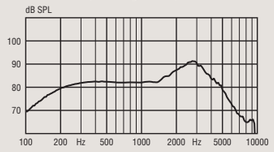

Full-on Gain




Frequency Response



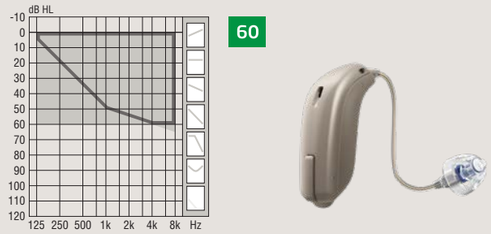

| | | Ear Simulator | 2CC Coupler |
|---|---|---|---|
| OSPL90 | Peak | 116 dB SPL | 105 dB SPL |
| | 1600 Hz | 109 dB SPL | 100 dB SPL |
| | HFA-OSPL90 | 110 dB SPL | 102 dB SPL |
| Full-on gain[1] | Peak | 46 dB | 35 dB |
| | 1600 Hz | 37 dB | 29 dB |
| | HFA-FOG | 38 dB | 30 dB |
| Reference test gain | | 30 dB | 26 dB |
| Frequency range | | 110-9700 Hz | 100-9200 Hz |
| Telecoil output (1600 Hz) | 1 mA/m field | - | - |
| | 10 mA/m field | - | - |
| | SPLITS L/R | - | - |
| Total harmonic distortion (Input 70 dB SPL) | 500 Hz | <2 % | <2 % |
| | 800 Hz | <3 % | <2 % |
| | 1600 Hz | <2 % | <2 % |
| Equivalent input noise level | Omni | 21 dB SPL | 18 dB SPL |
| | Dir | 28 dB SPL | 27 dB SPL |
| Battery consumption[2] | Typical | 1.5 mA | 1.6 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 120 | 115 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 60-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 21/<2/<2 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+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 standardized 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).

# Oticon Opn S 2 & 3

# miniRITE 60

**Technical data**




Mould, Bass & Power dome

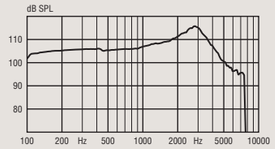
Open dome

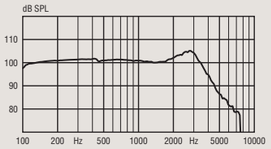
**Technical information**
Omnidirectional mode is used unless otherwise stated.

**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

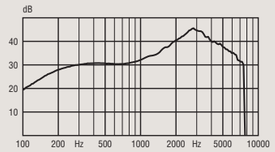
**2CC Coupler**
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

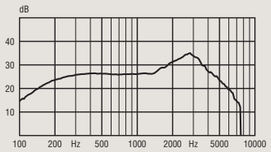
OSPL90



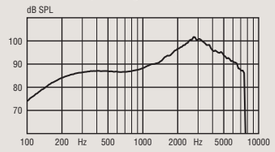



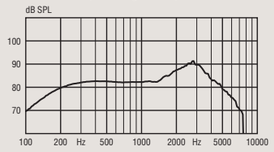

Full-on Gain




Frequency Response



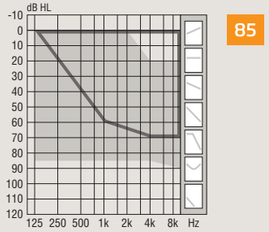
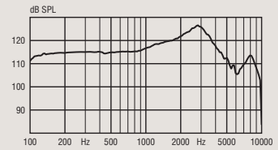
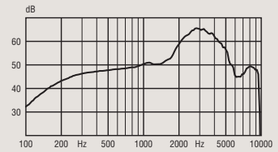
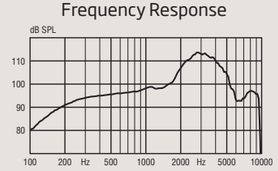
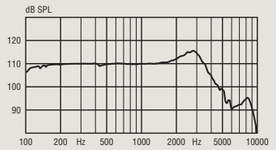
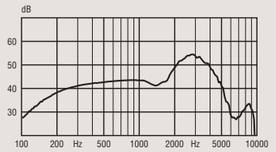
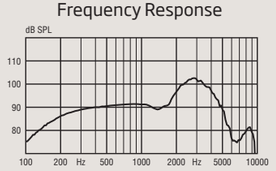




| | | Ear Simulator | 2CC Coupler |
|---|---|---|---|
| OSPL90 | Peak | 116 dB SPL | 105 dB SPL |
| | 1600 Hz | 109 dB SPL | 100 dB SPL |
| | HFA-OSPL90 | 110 dB SPL | 102 dB SPL |
| Full-on gain[1] | Peak | 46 dB | 35 dB |
| | 1600 Hz | 37 dB | 29 dB |
| | HFA-FOG | 38 dB | 30 dB |
| Reference test gain | | 30 dB | 26 dB |
| Frequency range | | 110-7500 Hz | 100-7500 Hz |
| Telecoil output (1600 Hz) | 1 mA/m field | - | - |
| | 10 mA/m field | - | - |
| | SPLITS L/R | - | - |
| Total harmonic distortion (Input 70 dB SPL) | 500 Hz | <2 % | <2 % |
| | 800 Hz | <3 % | <2 % |
| | 1600 Hz | <2 % | <2 % |
| Equivalent input noise level | Omni | 22 dB SPL | 19 dB SPL |
| | Dir | 30 dB SPL | 28 dB SPL |
| Battery consumption[2] | Typical | 1.5 mA | 1.6 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 120 | 115 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 60-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 21/<2/<2 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+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 standardized 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).

# Oticon Opn S 1

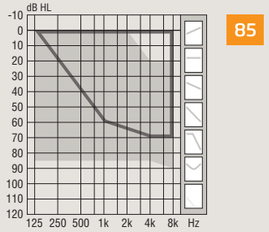
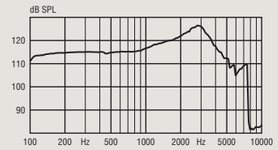
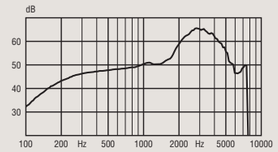
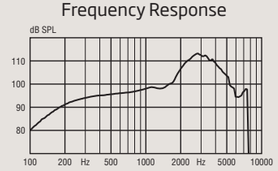
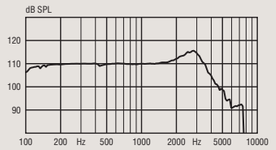
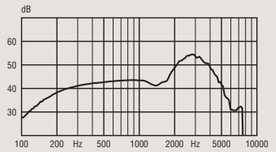
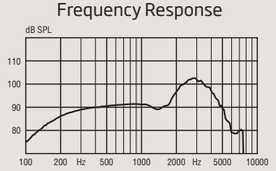
# miniRITE 85

| Technical data | | Ear Simulator<br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV and<br>IEC 60318-4:2010 | 2CC Coupler<br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006 |
|---|---|---|---|
|   Mould, Bass & Power dome<br>Open dome<br>**Technical information**<br>Omnidirectional mode is used unless otherwise stated. | | OSPL90<br>  <br>Full-on Gain<br>  <br>Frequency Response<br>  | OSPL90<br>  <br>Full-on Gain<br>  <br>Frequency Response<br>  |
| | Peak | 127 dB SPL | 116 dB SPL |
| OSPL90 | 1600 Hz | 120 dB SPL | 111 dB SPL |
| | HFA-OSPL90 | 121 dB SPL | 112 dB SPL |
| Full-on gain[1] | Peak | 66 dB | 54 dB |
| | 1600 Hz | 52 dB | 43 dB |
| | HFA-FOG | 55 dB | 47 dB |
| Reference test gain | | 45 dB | 34 dB |
| Frequency range | | 120-9500 Hz | 100-8500 Hz |
| Telecoil output (1600 Hz) | 1 mA/m field | - | - |
| | 10 mA/m field | - | - |
| | SPLITS L/R | - | - |
| Total harmonic distortion (Input 70 dB SPL) | 500 Hz | <2 % | <2 % |
| | 800 Hz | <3 % | <2 % |
| | 1600 Hz | <2 % | <2 % |
| Equivalent input noise level | Omni | 25 dB SPL | 20 dB SPL |
| | Dir | 32 dB SPL | 29 dB SPL |
| Battery consumption[2] | Typical | 1.6 mA | 1.7 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 110 | 105 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 55-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 31/<15/<15 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+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 standardized 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).

# Oticon Opn S 2 & 3

# miniRITE 85

| Technical data | | Ear Simulator<br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV and<br>IEC 60318-4:2010 | 2CC Coupler<br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006 |
|---|---|---|---|
|   Mould, Bass & Power dome<br>Open dome<br>**Technical information**<br>Omnidirectional mode is used unless otherwise stated. | | OSPL90<br>  <br>Full-on Gain<br>  <br>Frequency Response<br>  | OSPL90<br>  <br>Full-on Gain<br>  <br>Frequency Response<br>  |
| | Peak | 127 dB SPL | 116 dB SPL |
| OSPL90 | 1600 Hz | 120 dB SPL | 111 dB SPL |
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| Full-on gain[1] | Peak | 66 dB | 54 dB |
| | 1600 Hz | 52 dB | 43 dB |
| | HFA-FOG | 55 dB | 47 dB |
| Reference test gain | | 45 dB | 34 dB |
| Frequency range | | 120-7500 Hz | 100-7500 Hz |
| Telecoil output (1600 Hz) | 1 mA/m field | - | - |
| | 10 mA/m field | - | - |
| | SPLITS L/R | - | - |
| Total harmonic distortion (Input 70 dB SPL) | 500 Hz | <2 % | <2 % |
| | 800 Hz | <3 % | <2 % |
| | 1600 Hz | <2 % | <2 % |
| Equivalent input noise level | Omni | 26 dB SPL | 21 dB SPL |
| | Dir | 33 dB SPL | 30 dB SPL |
| Battery consumption[2] | Typical | 1.6 mA | 1.7 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 110 | 105 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 55-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 31/<15/<15 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+A1:1994 but without influence of feedback.
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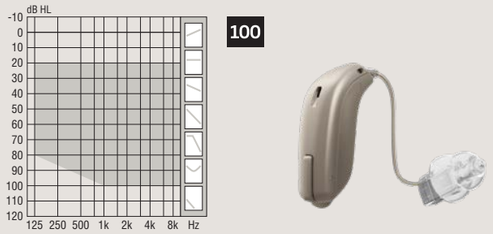
# Oticon Opn S 1

# miniRITE 100

**Technical data**




Power flex mould, Bass & Power dome

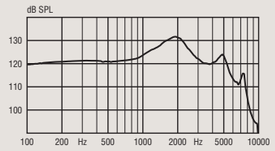
**Technical information**
Omnidirectional mode is used unless otherwise stated.

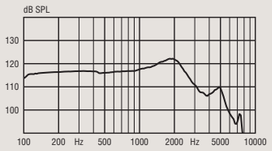
**Instrument warning**
The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

**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

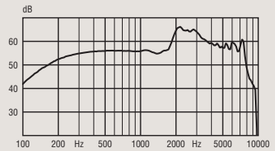
**2CC Coupler**
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

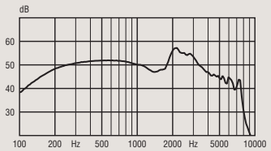
OSPL90



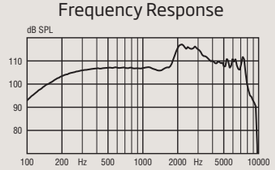



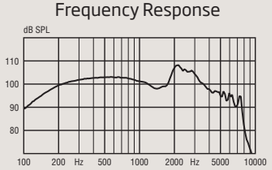

Full-on Gain




Frequency Response



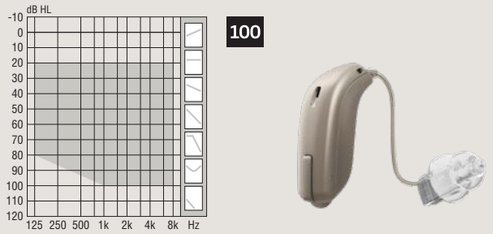

| | | Ear Simulator | 2CC Coupler |
|---|---|---|---|
| OSPL90 | Peak | 132 dB SPL | 122 dB SPL |
| | 1600 Hz | 130 dB SPL | 121 dB SPL |
| | HFA-OSPL90 | 127 dB SPL | 118 dB SPL |
| Full-on gain[1] | Peak | 66 dB | 57 dB |
| | 1600 Hz | 56 dB | 48 dB |
| | HFA-FOG | 59 dB | 51 dB |
| Reference test gain | | 49 dB | 42 dB |
| Frequency range | | 100-8500 Hz | 100-8000 Hz |
| Telecoil output (1600 Hz) | 1 mA/m field | - | - |
| | 10 mA/m field | - | - |
| | SPLITS L/R | - | - |
| Total harmonic distortion (Input 70 dB SPL) | 500 Hz | <7 % | <2 % |
| | 800 Hz | <4 % | <2 % |
| | 1600 Hz | <2 % | <2 % |
| Equivalent input noise level | Omni | 23 dB SPL | 19 dB SPL |
| | Dir | 32 dB SPL | 30 dB SPL |
| Battery consumption[2] | Typical | 1.5 mA | 1.7 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 115 | 105 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 50-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 25/<20/<20 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+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 standardized 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).

# Oticon Opn S 2 & 3

# miniRITE 100

**Technical data**




Power flex mould, Bass & Power dome

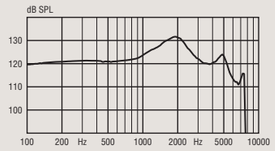
**Technical information**
Omnidirectional mode is used unless otherwise stated.

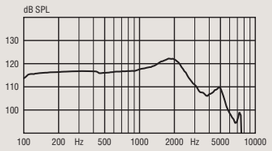
**Instrument warning**
The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

**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

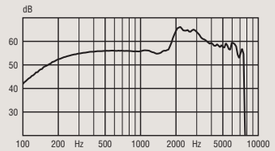
**2CC Coupler**
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

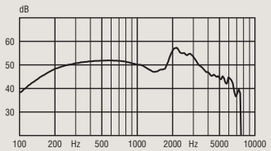
OSPL90



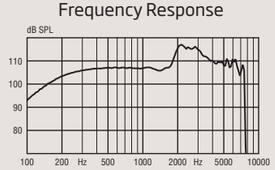



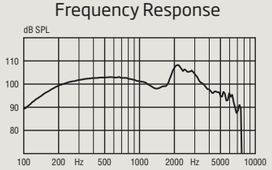

Full-on Gain




Frequency Response



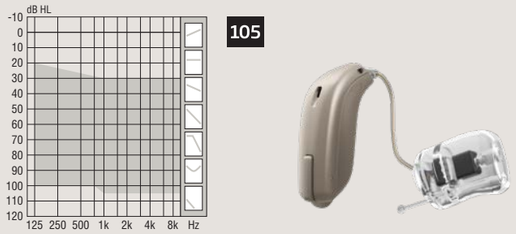

| | | Ear Simulator | 2CC Coupler |
|---|---|---|---|
| OSPL90 | Peak | 132 dB SPL | 122 dB SPL |
| | 1600 Hz | 130 dB SPL | 121 dB SPL |
| | HFA-OSPL90 | 127 dB SPL | 118 dB SPL |
| Full-on gain[1] | Peak | 66 dB | 57 dB |
| | 1600 Hz | 56 dB | 48 dB |
| | HFA-FOG | 59 dB | 51 dB |
| Reference test gain | | 49 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 | - | - |
| Total harmonic distortion (Input 70 dB SPL) | 500 Hz | <7 % | <2 % |
| | 800 Hz | <4 % | <2 % |
| | 1600 Hz | <2 % | <2 % |
| Equivalent input noise level | Omni | 23 dB SPL | 19 dB SPL |
| | Dir | 32 dB SPL | 30 dB SPL |
| Battery consumption[2] | Typical | 1.5 mA | 1.7 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 115 | 105 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 50-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 25/<20/<20 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+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 standardized 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).

# Oticon Opn S 1

# miniRITE 105

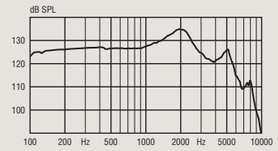
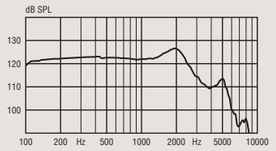
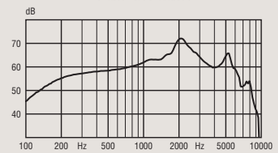
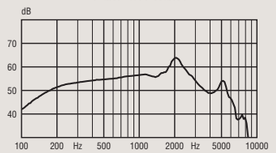
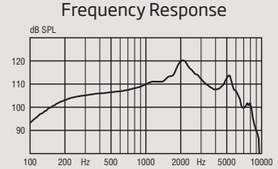
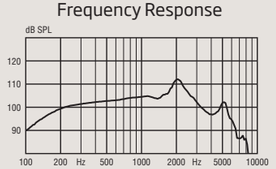
**Technical data**




Power flex mould

**Technical information**
Omnidirectional mode is used unless otherwise stated.

**Instrument warning**
The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

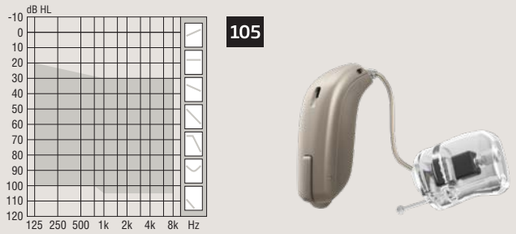
| | | **Ear Simulator** Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010 | **2CC Coupler** Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006 |
|---|---|---|---|
| | | OSPL90<br>  | OSPL90<br>  |
| | | Full-on Gain<br>  | Full-on Gain<br>  |
| | | Frequency Response<br>  | Frequency Response<br>  |
| | Peak | 135 dB SPL | 127 dB SPL |
| OSPL90 | 1600 Hz | 132 dB SPL | 125 dB SPL |
| | HFA-OSPL90 | 130 dB SPL | 122 dB SPL |
| | Peak | 72 dB | 64 dB |
| Full-on gain[1] | 1600 Hz | 65 dB | 57 dB |
| | HFA-FOG | 65 dB | 57 dB |
| Reference test gain | | 58 dB | 46 dB |
| Frequency range | | 100-8200 Hz | 100-7800 Hz |
| | 1 mA/m field | - | - |
| Telecoil output (1600 Hz) | 10 mA/m field | - | - |
| | SPLITS L/R | - | - |
| | 500 Hz | <2 % | <2 % |
| Total harmonic distortion (Input 70 dB SPL) | 800 Hz | <2 % | <2 % |
| | 1600 Hz | <3 % | <2 % |
| Equivalent input noise level | Omni | 18 dB SPL | 18 dB SPL |
| | Dir | 28 dB SPL | 29 dB SPL |
| Battery consumption[2] | Typical | 1.6 mA | 1.7 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 110 | 105 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 45-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 31/<16/<16 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+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 standardized 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).

# Oticon Opn S 2 & 3

# miniRITE 105

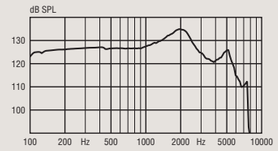
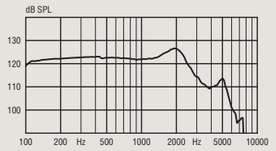
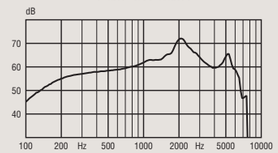
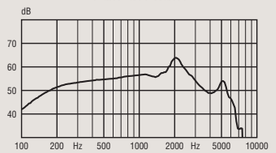
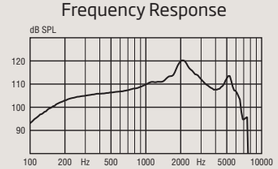
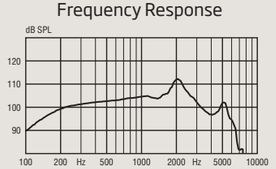
**Technical data**




Power flex mould

**Technical information**
Omnidirectional mode is used unless otherwise stated.

**Instrument warning**
The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

| | | **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 |
|---|---|---|---|
| | | OSPL90<br>  | OSPL90<br>  |
| | | Full-on Gain<br>  | Full-on Gain<br>  |
| | | Frequency Response<br>  | Frequency Response<br>  |
| | Peak | 135 dB SPL | 127 dB SPL |
| OSPL90 | 1600 Hz | 132 dB SPL | 125 dB SPL |
| | HFA-OSPL90 | 130 dB SPL | 122 dB SPL |
| | Peak | 72 dB | 64 dB |
| Full-on gain[1] | 1600 Hz | 65 dB | 57 dB |
| | HFA-FOG | 65 dB | 57 dB |
| Reference test gain | | 58 dB | 46 dB |
| Frequency range | | 100-7500 Hz | 100-6500 Hz |
| | 1 mA/m field | - | - |
| Telecoil output (1600 Hz) | 10 mA/m field | - | - |
| | SPLITS L/R | - | - |
| | 500 Hz | <2 % | <2 % |
| Total harmonic distortion (Input 70 dB SPL) | 800 Hz | <2 % | <2 % |
| | 1600 Hz | <3 % | <2 % |
| Equivalent input noise level | Omni | 18 dB SPL | 18 dB SPL |
| | Dir | 28 dB SPL | 29 dB SPL |
| Battery consumption[2] | Typical | 1.6 mA | 1.7 mA |
| | Quiescent | 1.5 mA | 1.5 mA |
| Battery life, artificial measurement, hours[3] | | 110 | 105 |
| Expected battery life, hours (battery size 312 - IEC PR41)[4] | | 45-65 | |
| IRIL (IEC 60118-13:2011) | | 800/1400/2000 MHz: 31/<16/<16 dB SPL | |

1) Measured with the gain control of the hearing aid set to its 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+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 standardized 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).

## Notes

## Notes

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Manufactured by:
Oticon A/S
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