

Technical data sheet

miniRITE R

60 85 100 105



	Oticon Ruby 1	Oticon Ruby 2	
Speech Understanding	Noise Reduction LX	•	•
	Multiband Adaptive Directionality LX	•	•
	Single Compression LX	•	•
	Speech Rescue™ LX	•	-
Sound Quality	Fitting Bandwidth*	8 KHz	8 KHz
	Processing Channels	48	48
	Bass Boost (streaming)	•	•
Listening Comfort	Transient Noise Management	On/Off	-
	SuperShield	•	-
	Feedback shield LX	•	•
	Wind Noise Management	•	•
Optimising Fitting	Fitting Bands	10	8
	Adaptation Management	•	•
	Oticon Firmware Updater	•	•
	Multiple Directionality options	•	•
	Fitting Formulas	NAL-NL1+2, DSL v5.0	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	•	•
	EduMic	•	•
Tinnitus SoundSupport™	•	•	
Oticon CROS compatible	•	•	

* Bandwidth accessible for gain adjustments during fitting

Operating conditions

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

Charging conditions

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

Storage and transportation conditions

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

Transport

Temperature: -20°C to +60°C
Relative humidity: 5% to 93%, non-condensing

Storage

Temperature: -20°C to +30°C
Relative humidity: 5% to 93%, non-condensing

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miniRITE R offers a discreet design powered by a rechargeable lithium-ion battery. The inductive charger secures reliable and fast charging within 3 h. for a full charge.

miniRITE R features telecoil and a convenient double push button.

SuperShield rapidly and intelligently prevents feedback before it occurs.

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

The powerful Velox S™ platform has programmable firmware architecture, supporting future performance updates.

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

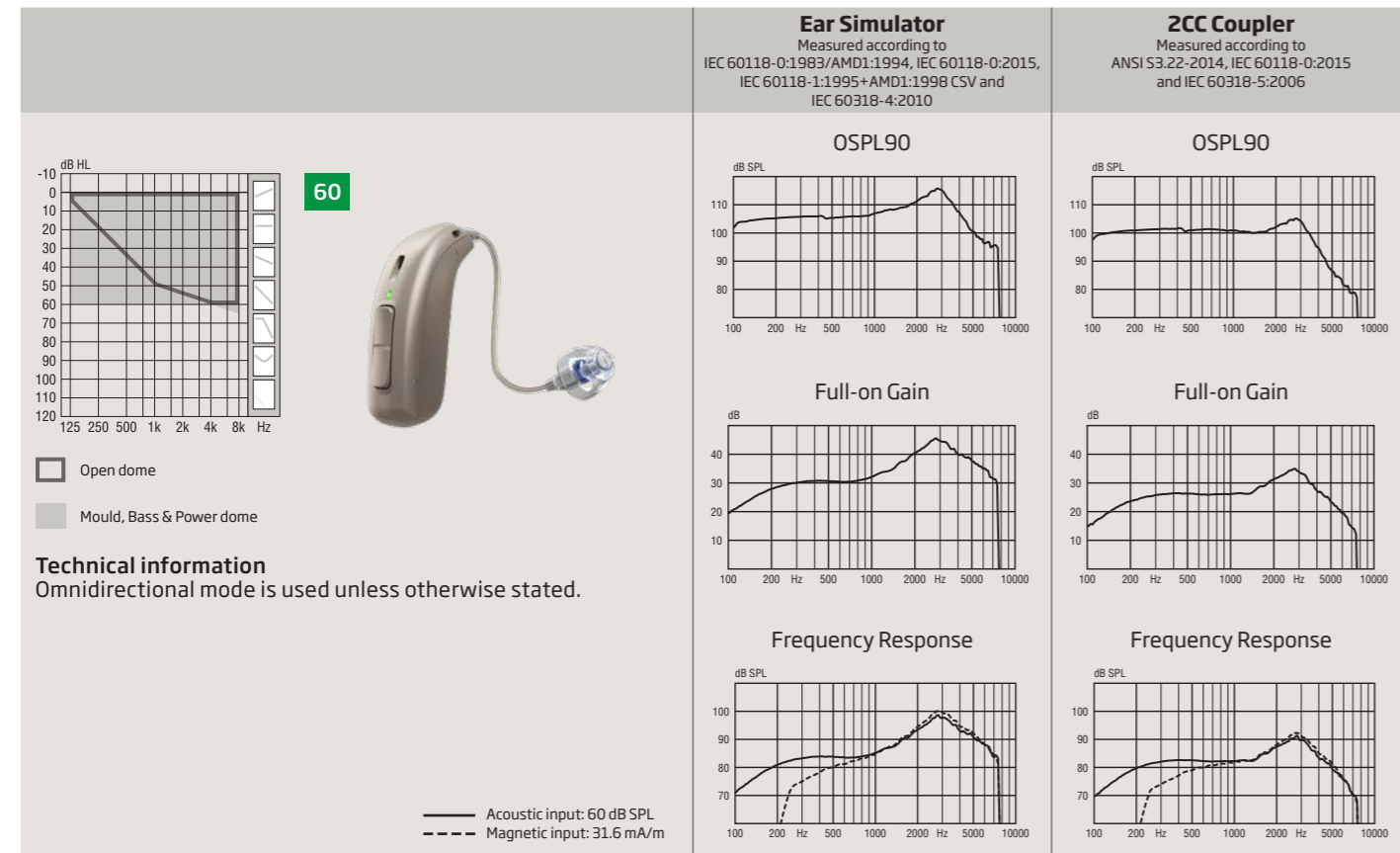


For information on compatibility, please visit www.oticon.global/connectivity



Oticon Ruby

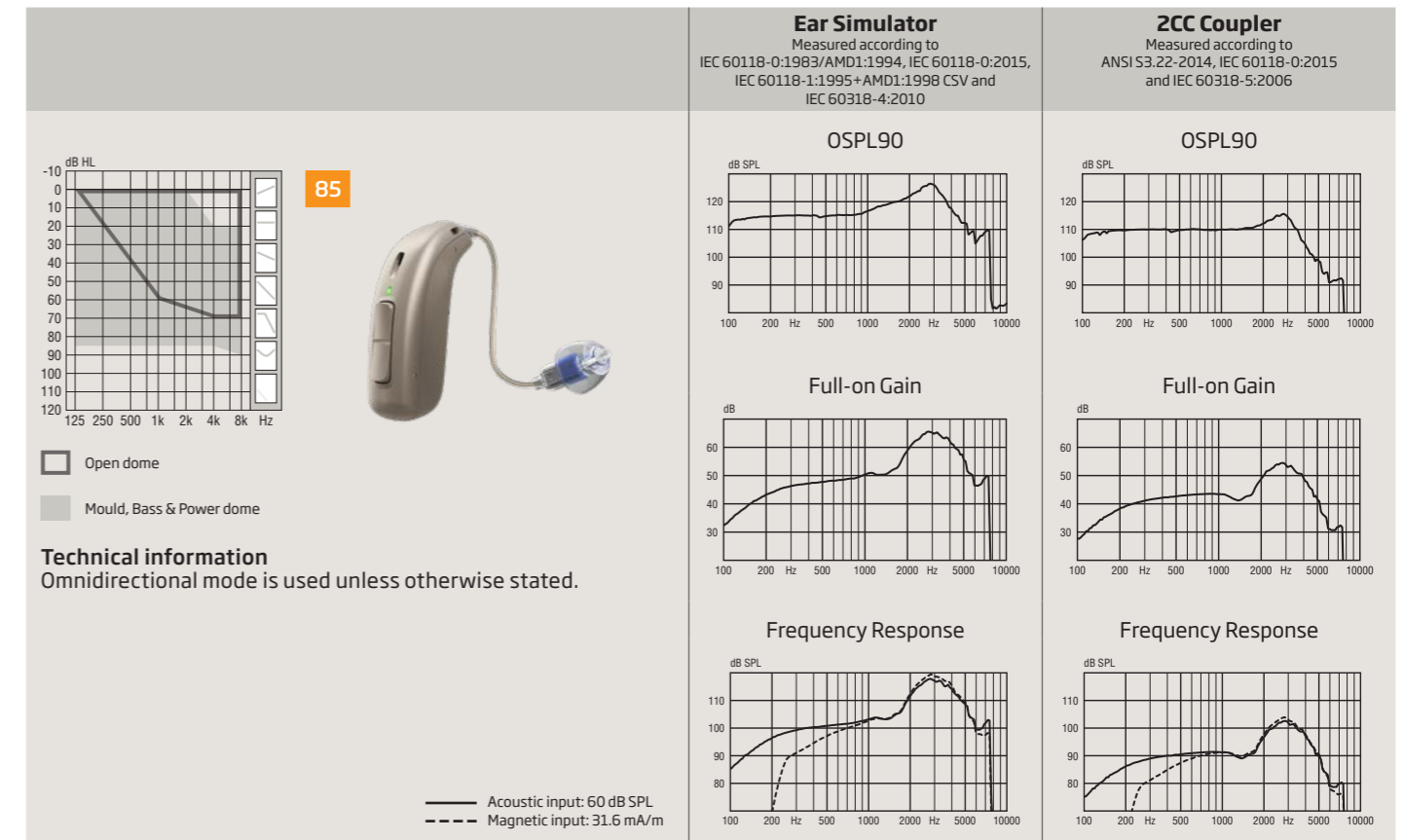
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OSPL90	Peak	116 dB SPL	105 dB SPL
	1600 Hz	109 dB SPL	100 dB SPL
	HFA-OSPL90	110 dB SPL	102 dB SPL
Full-on gain ¹	Peak	46 dB	35 dB
	1600 Hz	37 dB	29 dB
	HFA-FOG	38 dB	30 dB
Reference test gain		30 dB	26 dB
Frequency range		110-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	1 mA/m field	67 dB SPL	-
	10 mA/m field	87 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	22 dB SPL	19 dB SPL
	Dir	30 dB SPL	28 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours ²		24	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 16/21/26 dB SPL	

Oticon Ruby

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OSPL90	Peak	127 dB SPL	116 dB SPL
	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		120-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	1 mA/m field	82 dB SPL	-
	10 mA/m field	102 dB SPL	-
	SPLITS L/R	-	94/94 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	26 dB SPL	21 dB SPL
	Dir	33 dB SPL	30 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours ²		24	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 20/20/24 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) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

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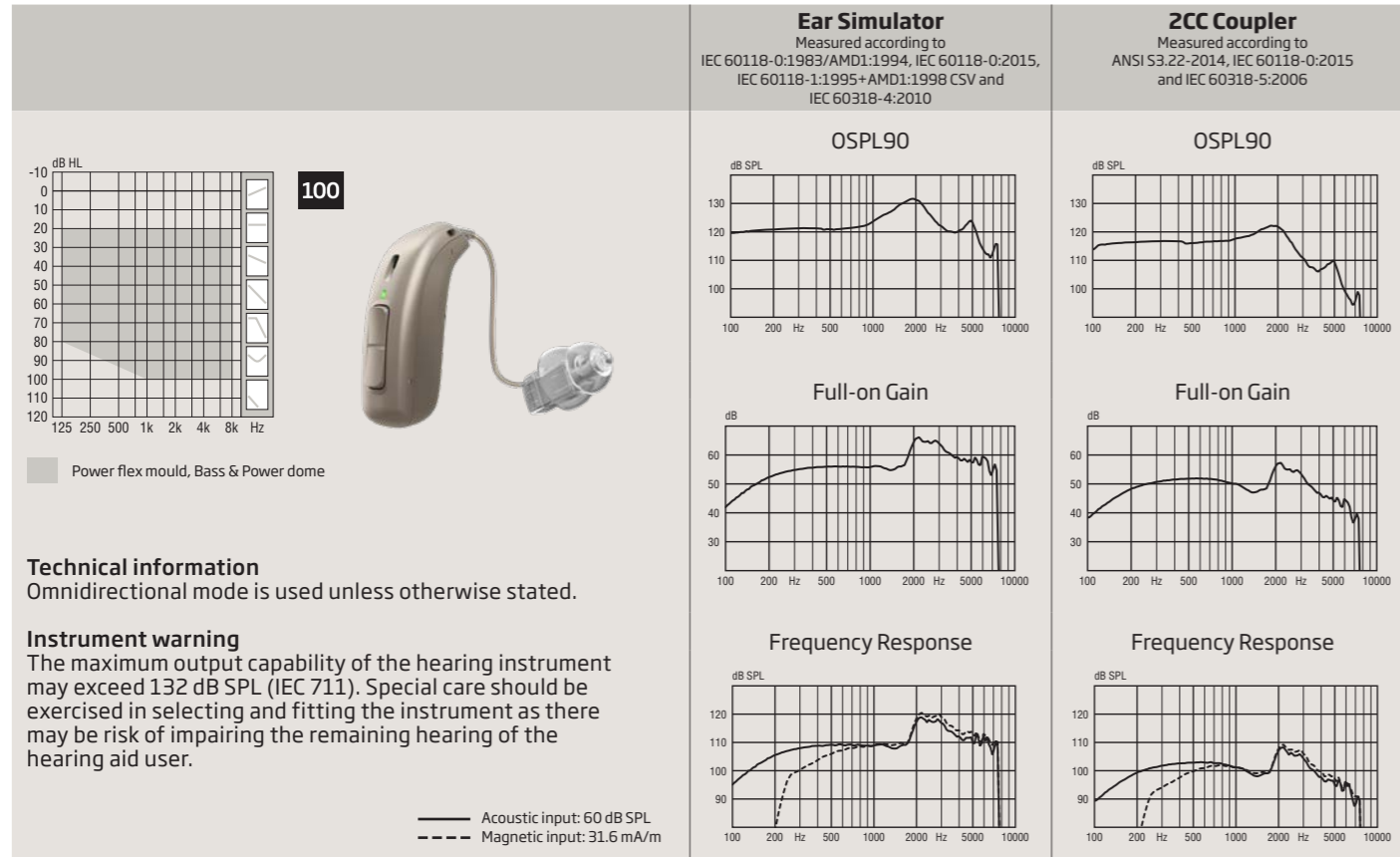
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Oticon Ruby

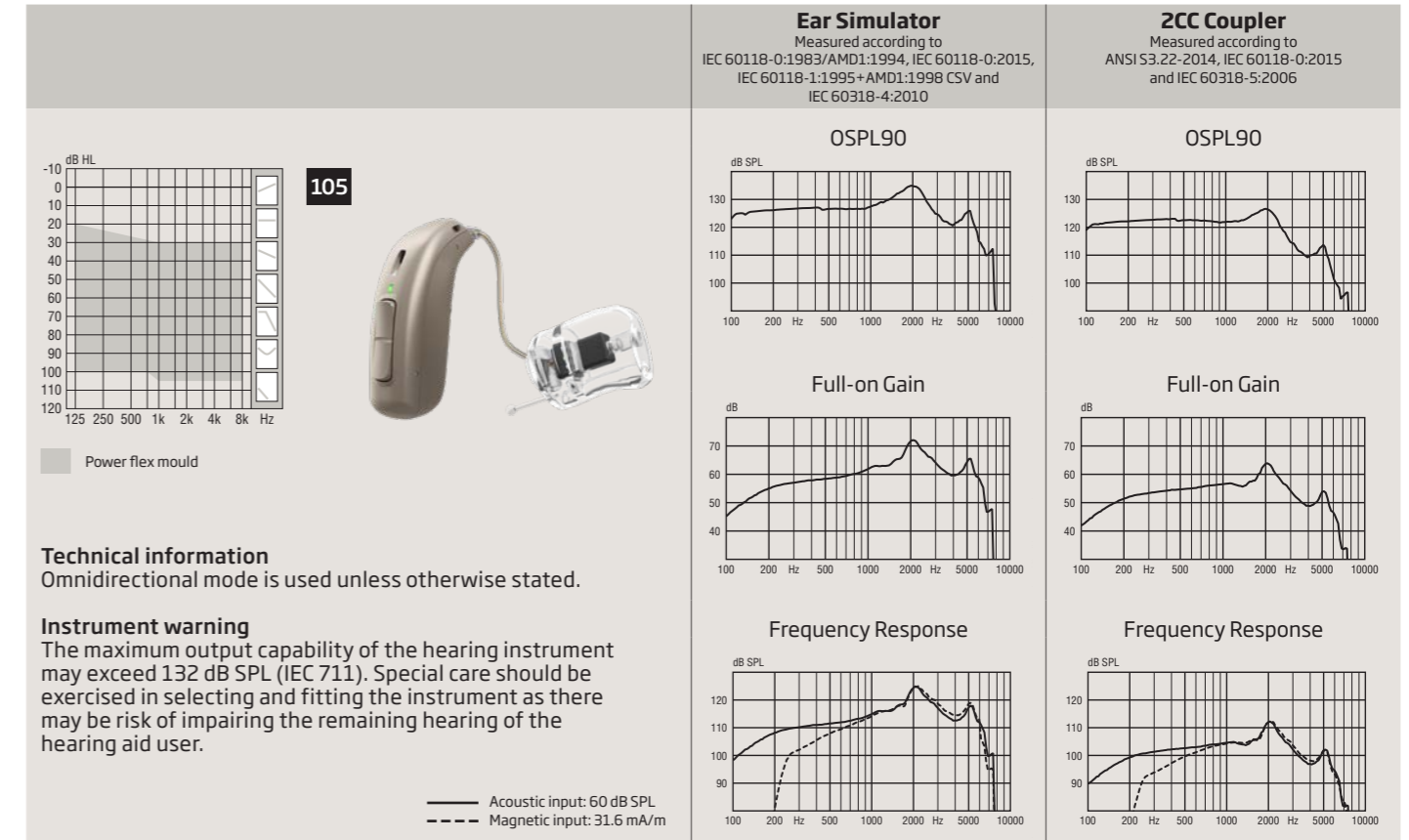
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Oticon Ruby

miniRITE R 105



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	86 dB SPL	-
	10 mA/m field	106 dB SPL	-
	SPLITS L/R	-	103/103 dB SPL
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		Lithium-ion	Lithium-ion
Expected operating time, hours ²		24	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 18/21/28 dB SPL	



OSPL90	Peak	135 dB SPL	127 dB SPL
	1600 Hz	132 dB SPL	125 dB SPL
	HFA-OSPL90	130 dB SPL	122 dB SPL
Full-on gain ¹	Peak	72 dB	64 dB
	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
Telecoil output (1600 Hz)	1 mA/m field	96 dB SPL	-
	10 mA/m field	116 dB SPL	-
	SPLITS L/R	-	105/105 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	<2 %	<2 %
	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		Lithium-ion	Lithium-ion
Expected operating time, hours ²		24	
IRIL (IEC 60118-13:2011)		700/1400/2000 MHz: 38/18/39 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) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

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Charger 1.0

miniRITE R

The charger is designed for charging Oticon Ruby miniRITE R. The charger is based on inductive technology. It wirelessly charges the hearing aids within three hours. A magnetic connection secures the hearing aids always stay in the charger. The charger is designed to simplify everyday charging activities with a few, easy actions.

Charging

- Designed to make the most typical daily routine of charging smooth and simple.
- Take off the hearing aids and insert them in the charger - no lid to open.
- The hearing aids automatically start charging when placed in the charger and turn ON automatically when removed from the charger.
- Charge every night and the hearing aids will be fully charged when needed during day time.

Intuitive to decode with few simple LED messages directly on the hearing aids:

- Orange = Charging
- Green = Fully charged

Offering short charging times. If the hearing aids are completely drained, the normal charging times are:

- 3 h = Fully charged
- 1 h = 50% charged
- 0.5 h = 25% charged

Product facts

- Inductive charging
- Power ON/OFF LED indicator on charger
- The charger comes with a fixed cable
- High stability due to rubber feet
- Soft, round shapes - easy to clean
- Soft pouch for travelling included



* Power plug will vary from country to country

Charger 1.0

miniRITE R

Technical data: Charger	
Name	Charger 1.0, Oticon miniRITE R
Designed for/compatibility	Oticon Opn S, Oticon Opn Play, Oticon Ruby: miniRITE R
Dimensions	Ø95 mm /total height of 39 mm
Weight	140 grams
Colour	Black
Power supply plug	USB A
Status indicator	LED on charger. Indicates Charger ON/OFF status LED on hearing aid. Indicates charging mode
Charging time of hearing aids	Max 3 hours depending on initial state of the battery (Temperature: +10 °C to +35 °C) Max 4 hours depending on initial state of the battery (Temperature: +5 °C to +10 °C and +35 °C to +40 °C)
Power source	Supplied power supply unit
Input voltage	5 V DC
Input current	< 0.2 A (charging two hearing aids) <10mA stand-by (no hearing aids inserted)
Cable	Fixed mounted cable / 150 cm
Connected to external equipment	When connected to external equipment plugged into a wall outlet, this equipment must comply with IEC-62368 or equivalent safety standards.

Conditions of use	
Operating conditions	Temperature: +5 °C to +40 °C Relative humidity: 5 % to 93 %, non-condensing
Storage and transportation conditions	Temperature: -25 °C to +70 °C Relative humidity: 5 % to 93 %, non-condensing
Atmospheric pressure	700 hPa to 1060 hPa

Technical data: Power supply unit	
Power supply unit	AN05x-050A
Input voltage	100 -240 V AC
Input current	0.2 A
Input frequency	50-60 Hz
Output voltage	5 V DC
Output current	1 A



Oticon A/S
Kongebakken 9
DK-2765 Smørum
Denmark

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