

BeneHeart C1A

Automated External Defibrillator (AED)



Defibrillator

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| Operations | Semi-automatic and fully automatic versions |
| Waveform | Biphasic Truncated exponential (BTe), with automated voltage and duration compensation for patient impedance |
| Range of selected energy | 100 to 360 J (adult) 10 to 100 J (child) |
| Energy default | 200-300-360 J (adult) 50-70-100 J (child) Default configuration meets AHA/ERC Guidelines 2015. |
| Energy accuracy | ± 2 J or ± 10 % of setting, whichever is greater |
| Power on time | < 2 seconds |
| ECG analysis time | < 5 seconds |
| Charge time | 0 seconds (as device is pre-charged during ECG analysis) |
| Time from power on to shock ready | < 8 seconds (200J, new battery, 20 \pm 5 $^{\circ}$ C) |
| Mindray shockable rhythm analysis algorithm | Acquires and analyzes the patient's ECG signals to determine whether or not to give a defibrillation shock |
| Sensitivity and specificity | Meets AAMI DF80 specifications and IEC 60601-2-4 specifications |
| Patient impedance range | 25 to 300 Ω |

User Prompts

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| User prompts | Voice prompts |
| CPR coaching | Voice guide CPR metronome CPR real-time feedback ¹ |
| CPR protocol | Meets AHA/ERC Guidelines 2015 and/or can be configured locally |

Controls

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|-------------------------|---|
| Lid release/ON-OFF | Controls device power on/off |
| Shock button | Delivers energy when button presses by the user (semi-automatic only) |
| Adult/child mode switch | Switch to child mode for reduced energy and appropriate CPR guidance |

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| Language button | Optional feature allows the user to switch between max. 3 languages |
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Physical Characteristics

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| Dimension | 210 mm (w) x 286 mm (d) x 78 mm (h) |
| Weight | 2.0 kg (including one battery) |

Environmental

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|-----------------------|--|
| Dust/water resistance | IP55 |
| Temperature | Operating: -5 to 50 $^{\circ}$ C Short-term storage: -30 to 70 $^{\circ}$ C for a maximum of 7 days Long-term storage: 15 to 35 $^{\circ}$ C |
| Humidity | Operating/storage: 5 to 95 % (non-condensing) |
| Altitude | Operating/storage: -381 m to +4575 m |
| Shock | RTCA-DO-160G-2010, Section 7 IEC60601-1-12, 10.1.3, 10.1.4 |
| Vibration | MIL-STD-810G-2008, method 514.6, Category 13, Category 14, Category 20, Category 24 EN13718-1, 4.7.2 |
| Bump | EN1789, 6.3.4.2 EN13718-1, 4.7.2 |
| Drop | 1.5 m |
| EMC | IEC60601-1-2: 2014 EN13718-1, 4.5.7 IEC 60601-1-12, 11 |

Battery

| | |
|-----------------|---|
| Type | Lithium manganese dioxide (Li/MnO ₂), disposable, 4200 mAh |
| Standby life | 6 years (at 20 \pm 5 $^{\circ}$ C, performing auto test every week, not in use, not sending self-test report) 5 years (at 20 \pm 5 $^{\circ}$ C, performing auto test every day, not in use, not sending self-test report) |
| Capacity | With new battery at 20 \pm 5 $^{\circ}$ C: \geq 15 hours of operating times; provides max. 400 shocks @200J (\pm 3 shocks < 1 minute) |
| Replace battery | Min. 10 shocks at 200 J and 30 minutes |

indication of operating time (at 20±5 °C, typical).

Weight 300 g

Electrode Pads

Type Pre-connected, disposable, for adult/child

Shelf life 5 years (from date of manufacture)

CPR Sensor²

Weight Approximately 180 g (without battery)

Thickness 17.5 to 19 mm

Automatic Self-test

Auto-test Daily, weekly, monthly, quarterly

Status indicator Visual indicators indicating system readiness

Data Storage

Events Up to 500 events

Voice recording Up to 1 hour

CPR data Up to 5 hours

Self-test reports 1000 records

Data export Through USB flash memory

Communications

Wireless data transfer to AED- network Through 5G/2.4G Wi-Fi or cellular (4G)³

Alert™ 2.0 system

¹ Requiring to configure with CPR sensor

² For further information about the availability of CPR sensor, please contact with your local sales representatives.

³ For further information about the availability of 4G data transfer and AED-Alert™ 2.0 system, please contact with your local sales representatives.