BeneHeart S2A

BeneHeart S2A Fully Automatic

Automated External Defibrillator (AED)





Defibrillator

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 200 J (child)
Energy default	200-300-360 J (adult) 100-100-200 J (child) Default configuration meets AHA2020/ERC2021 Guidelines.
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±5℃)
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 IEC 60601-2-4 specifications
Patient impedance range	25 to 300 Ω

User Prompts

User prompts	Animation prompts, voice prompts
CPR coaching	Animation and voice guide CPR metronome CPR real-time feedback[1]
CPR protocol	Meets AHA/ERC Guidelines 2021 and/or can be configured locally

Controls

Lid release/ON-OFF	Controls device power on/off
Shock button	Delivers energy when button is pressed by the user (semi-automatic only)
Adult/child mode switch	Switch to child mode for reduced energy and appropriate CPR guidance
Language button	Optional feature allows the user to switch between max. 3 languages

Physical Characteristics

Dimension(±2cm)	21.0 cm (w) x 28.6 cm (d) x 7.8 cm (h)
Weight	2.3± 0.3 kg (including one battery, excluding the Wi-Fi and cellular modules)

Display

Type	TFT Color LCD
Dimensions	7-inch
Resolution	800 × 480 pixels

Environmental

Dust/water resistance	IP55
Temperature	Operating: -5 to 50 °C Short-term storage: -30 to 70 °C for a maximum of 7 days Long-term storage: 15 to 35℃
Humidity	Operating/storage: 5 to 95 % (non-condensing)
Altitude	Operating/storage: -381 m to +4575 m
Shock	RTCA-DO-160G-2010, Section 7 Operational Shocks IEC 60601-1-12,10.1.3，10.1.4
Vibration	MIL-STD-810G-2008, method 514.6, Category 13，Category 14，Category 20，Category 24； EN13718-1，4.7.2 IEC 60601-1-12,10.1.3,10.1.4
Bump	EN1789, 6.3.4.2 EN13718-1, 4.7.2
Drop	1.5 m
EMC	Meets IEC60601-1-2：2014 Meets EN 13718-1 ，4.5.7 IEC 60601-1-12,11

Battery

Type	Lithium manganese dioxide battery (Li/MnO2), disposable, 4200 mAh
Standby life	5 years (at 20±5 °C, performing auto test every day, not in use, wireless function

	turned off)
Capacity	With new battery at 20±5 °C: ≥ 12 hours of operating times; provides 350 shocks @200J (3 shocks in 1 minute)
Low battery / replace battery indication	Min. 10 shocks at 200 J and 30 minutes 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 Sensor[2]	
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 Alert™ system	Through 5G/2.4G Wi-Fi or cellular (4G)[3] network

[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 system, please contact with your local sales representatives.

www.mindray.com

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