

mindray

Smarter & Faster

CI A Semi/Fully-Automatic AED Datasheet



DEFIBRILLATOR

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

USER PROMPTS

User prompts	Voice prompts
CPR coaching	Voice guide
	CPR Metronome
CPR protocol	Meets AHA/ERC Guidelines 2015 and/or can be configured locally

CONTROLS

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

PHYSICAL CHARACTERISTICS

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



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°C
Humidity	Operating/storage: 5 to 95% (non condensing)
Altitude	Operating/storage: -381m to +4575m
Shock	RTCA-DO-160G-210, 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 EN 13718-1, 4.7.2
Drop	1.5m
EMC	IEC60601-1-2:2014 EN13718-1, 4.5.7 IEC 60601-1-12, 11

BATTERY

Type	Lithium manganese dioxide (Li/MnO ₂)
Standby Life	6 years (at 20±5 °C, performing auto test every week, not in use, not sending self-test report) 5 years (at 20±5°C, performing auto test every day, not in use, not sending self-test report)
Capacity	With new battery at 20±5 °C ≥15 hours of operating time; provides max 400 shocks @ 200 J (± 3 shocks < 1 minute)
Replace Battery Indication	Min. 10 Shocks at 200 J and 30 minutes of operating times (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)

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	Through 5G/2.4G Wi-Fi or cellular (4G)*
Transfer to AED	Network Alert™ 2.0 system

* For further information about the availability of 4G data transfer and AED-Alert™ 2.0 system, please contact Defib Store



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