

Medtronic® Lifepak CRPlus



Typical Manufacturer's Picture

Features

- 1-2-3 step operation
- Semi-automatic or fully automatic configurations
- Light weight and compact
- Highly visible readiness indicator

Specifications

DEFIBRILLATOR

Waveform: Biphasic truncated exponential, with voltage and current duration compensation for patient impedance.

Output Energy Sequence: Multiple levels, user configurable from 200j to 360j (150j minimum outside the USA)

Output Energy Accuracy: $\pm 10\%$ into 50 ohms, $\pm 15\%$ into 25 to 100 ohms.

Shock Advisory System: An ECG analysis system that advises whether a shock is appropriate; meets rhythm recognition criteria specified in DF39. The device charges for shock only when the Shock Advisory System advises defibrillation.

Device Capacity

Typical: thirty (30) full discharges or 210 minutes of “on time” with a fully charged device

Minimum: Twenty (20) full discharges or 140 minutes of “on time” with a fully charged device.

Shock Charge Time: Charge times with a fully charged device: 200 joules in less than 9 seconds, 360 joules in less than 15 seconds.

System Recharge Times: Recharge times with a fully discharged device: able to deliver six (6) shocks or provide 42 minutes of operating time after 48 hours of recharge and 20 shocks or 140 minutes of operating time after fourteen (14) days of recharge time with a new CHARGE-PAK at temperatures above 15° C (59°F)

Controls: Lid Release/ON-OFF – Controls device power. SHOCK button (semi-automatic version) – delivers defibrillation energy. After electrodes are attached to a patient, the fully automatic version of the device delivers a shock, if appropriate, not requiring operator intervention.



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USER INTERFACE

User Interface: The user interface includes voice prompts, audible tones and graphic prompts.

Readiness Display: Shows the device status

OK Indicator: Shows “OK” when the last self-test was completed successfully. When the “OK” is visible, all other indicators are not visible. The “OK” indicator is not displayed during device operation.

CHARGE-PAK Indicator: When displayed, replace the CHARGE-PAK battery charger.

Attention Indicator: When first displayed, at least six (6) discharges or 42 minutes of operating time remain.

Service Indicator: Service required when displayed.

SETUP OPTIONS

Energy Sequence: Users can choose an energy sequence to match their applicable energy protocol.

Motion Detection: The motion detection system can be set to off or during analysis.

Energy Protocol: The user can configure the defibrillator to increase energy after every shock or only increase it after a lower energy was unsuccessful.

Turn-On Prompt: The turn-on prompt option allows the user to select the prompting style upon power on.

CPR Time: The CPR time can be set to match local protocol.

Pulse Prompt: The pulse prompt option allows the user to select the voice message for CPR prompting according to the *Guidelines 2000*, as recommended by the American Heart Association (AHA) and the International Liaison Committee on Resuscitation (ILCOR).

Voice Prompt Volume: The voice prompt volume option allows changing the speaker volume.

Time/Date: The time and date can be changed

Device ID: The device ID feature assigns a unique identifier to a particular device, which is printed on all reports.

DATA STORAGE

Memory Type: internal digital memory.

ECG Storage: Dual patient data storage, Minimum 20 minutes of ECG stored for the current patient, summarized data stored for the previous patient.

Report Types

- **Continuous ECG:** A continuous patient ECG report.
- **Continuous Summary Report:** A summary of critical resuscitation events and ECG waveform segments associated with these events.
- **Event Log Report:** A report of time stamped markers, which reflect operator and device activity.



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- **Test Log Report:** A device self-test activity report

Capacity: Minimum 200 time-stamped event log markers.

Communications: Wireless transfer to a personal computer

PHYSICAL CHARACTERISTICS

Height: 10.7 cm (4.2 in)

Width: 20.3 cm (8.0 in)

Depth: 24.1 cm (9.5 in), excluding handle

Weight: 2.0 kg (4.5 lbs) with CHARGE-PAK and electrodes

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