The LIFEPAK 500 automated external defibrillator is designed to be used by first responders to cardiac emergencies. This affordable, rugged device is extremely portable at only seven pounds (3.2kg). Low maintenance requirements and intuitive operation make it the ideal product for infrequent AED users.

The 500 offers a choice of ADAPTIV Biphasic Technology or industry standard Edmark defibrillation waveforms, both with the capability to deliver shocks at energy levels recommended by current American Heart Association and international guidelines. Both monophasic and biphasic devices utilize the same field-proven Shock Advisory System™ used in thousands of LIFEPAK AEDs since 1986.

Features include pre-connected QUIK-COMBO™ electrodes that save valuable time on-scene and are compatible with other LIFEPAK defibrillators; clear, concise voice prompting for defibrillation and CPR; LCD for text messages, shock count, CPR time, and real-time clock. Choice of simple 2- or 3-button operation allows the 500 to meet the needs of responders with a variety of training and experience levels. Automatic self-testing saves time and improves testing consistency. Always visible readiness display (available on devices with ADAPTIV biphasic technology only) provides SERVICE REQUIRED or LOW BATTERY alert. Battery options include a rechargeable sealed lead-acid battery and high capacity extended shelf-life lithium batteries that require no recharging and no maintenance.

ECG data and on-scene audio (optional) are stored digitally within the device for maximum durability and simplicity. Incident data can be conveniently transmitted from the 500 to medical control via modem. CODE SUMMARY™ reports can be printed directly to a standard printer for rapid access to information. User-friendly PC-based software allows complete, efficient review of both ECG and audio data. 500 data can be stored in a CODE-STAT™ database with other Medtronic Physio-Control defibrillator and 12-lead data for comprehensive system-wide review and reporting.
**DEFIBRILLATOR**

**Input:** ECG via QUIK-COMBO or FAST-PATCH® disposables (anterior-lateral).

**Electrical Protection:** Input protected against high voltage defibrillator pulses per IEC 60601/EN 60601.

**Safety Classification:** Internally powered equipment IEC 60601-1/EN 60601-1, 5.1.

**Waveform:** Monophasic pulse (Edmark) per AAMI DF2 1989, 3.2.1.5.1. Biphase truncated exponential, with voltage and duration compensation for patient impedance. —

**Output Energy Sequence:** Monophasic: 200, 200, 360 joules (360 joules thereafter) or 200, 300, 360 joules (360 joules thereafter).

**Biphasic:** Three levels, user configurable from 200 to 360 joules, delivered (Level 1, Level 2, Level 3, Level 3...).

**Charge Time:** With a new, nonrechargeable battery pak, or a new, fully charged rechargeable battery pak: 200 joules in less than 9 seconds or 360 joules in less than 15 seconds.

**Controls:**
- **ON/OFF** Turns device power on or off.
- **SHOCK** Delivers defibrillation energy.
- **Recording and Audio Recording Setup Option** is ON.
- **ECG and Event Log of Operator/Device Actions** is ON/OFF.
- **200 joules in less than 9 seconds** or **a new, fully charged rechargeable battery pak:**
  - **Monophasic:** 200, 200, 360 joules thereafter.
  - **Biphasic:** 200, 300, 360 joules (360 joules thereafter).

**Data Review:** LIFENET system compatible. Options:
- **DATA TRANSFER** 500 information management program.
- **QUI-VIEW** 500 data review program.
- **CODE-STAT SUITE** data management system, v.2.0 or above.

**EVENT DOCUMENTATION**

**Type:** Internal digital memory.

**Memory Capacity:** 20 minutes audio recording (optional). ECG and event log of operator/device actions: At least 20 minutes if unit is configured with audio recording and audio recording setup option is ON. At least 80 minutes if configured with audio recording, and audio recording setup option is OFF. At least 60 minutes if not configured with audio recording.

**Report Types:** CODE SUMMARY report, Event Log report, Test Log report.

**Capacity:** 300 Event Log events. 30 Test Log device tests (assuming no fault codes).

**Communications:** Options:
- Direct connection to personal computer.
- Modern connection to personal computer using Hayes AT-Compatible modem.
- Print direct with EPSON® ESC/P protocol for printers with 9-pin printheads.

**Waveform:**
- **Monophasic** pulse (Edmark) per AAMI DF2 1989, 3.2.1.5.1.
- **Biphasic truncated exponential**, with voltage and each of three axes.

**Environmental**

**Operating Temperature:** 0°C to 50°C (+32°F to +122°F).

**Storage Temperature:** -30°C to +65°C (-22°F to +149°F) without battery and electrodes.

**Relative Humidity:** 10 to 95% (non-condensing).

**Water Resistance:** IEC 60529/EN 60529 IPX4 “Splashproof” with electrodes or connector cover installed.

**Shock:** MIL-STD-810E, Method 516.4, Procedure 1 (40g, 6–9ms pulse, 1/2 sine each axis).

**Vibration:** Monophase version: MIL STD 810E, Method 514.4, Category 10.

**Monophasic** version: MIL-STD-810E, Method 514.4.

**Biplase:** —

**Atmospheric Pressure:** 760 to 429mmHg (0 to +15,000 ft above sea level).

**Weight:**
- **0.5kg (1.2 lb).**

**Nonrechargeable Lithium Sulphur Dioxide (LiSO₂) Battery Pak**

**Type:** Sealed lithium, 12V, 7.5 amp-hours.

**Certification:** FAA: TSO-C97 or CAA: BS2G237.

**Capacity:** Typical: 312 full discharges or 14 hours of “ON” time. Minimum: 230 full discharges with a new battery.

**Shelf Life:** 5 years°° (4 years for aircraft use.)

**Weight:** 0.5kg (1.2 lb).

**Nonrechargeable Manganese Dioxide (LiMnO₂) Battery Pak**

**Type:** Sealed lithium, 12V, 10.0 amp-hours.

**Capacity:** Typical: 416 full discharges or 18 hours of “ON” time. Minimum: 230 full discharges with a new battery.

**Shelf Life:** 5 years.

**Weight:** 0.5kg (1.2 lb).

**°°Note:** See Operating Instructions for information on caring for batteries.

**BATTERIES**

**Note:** See Operating Instructions for information on caring for batteries.

**Rechargeable SLA Battery Pak**

**Type:** Sealed lead-acid, 8V, 2.5 amp hours.

**Capacity:** Typical: 59 full discharges or 3 hours of “ON” time with a new, fully charged battery. Minimum: 43 full discharges with a new, fully charged battery.

**Battery Charge Time:** 10±1 hours. Battery charging limited to +15°C to +35°C (+59°F to +95°F).

**Recommended Replacement Interval:** 2 years or 200 battery charge/discharge cycles, whichever comes first using recommended battery maintenance procedures.

**Weight:** 0.9kg (1.9 lb).

** environmental**

**Physical Characteristics**

**Height:** 10.2cm (4.0 in).

**Width:** 26.7cm (10.5 in).

**Depth:** 29.5cm (11.6 in) including handle.

**Weight:** Monophasic version: 6.2 lbs (without battery or electrodes). Biphase version: 5.3 lbs (without battery or electrodes).

**Defibrillation protected, type BF patient connection.**

All specifications are at 20°C unless otherwise specified. All performance specifications assume the device has been stored (two hours minimum) at the operating temperature prior to operation.

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*Defibrillator specifications apply from 25 to 200 ohms. Voltage measurement across patient connection.*

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**Shelf-life:** 4 years for aircraft use.**