



The **Physio-Control Lifepak 500** is a portable, battery-powered automated external defibrillator. Once the Electrode pads are attached to the patient, the defibrillation system can evaluate the heart rhythm and detect if a shock is needed. The Physio-Control Lifepak 500 comes in both monophasic and biphasic modes. The Lifepak 500 is an AED that offers both vocal and visual step-by-step instructions on how to use the defibrillator. The two-button operation system makes it easy to use, with an on/off button and a shock button. Like most defibrillators, the Lifepak 500 runs a self-test every 24 hours making sure the system is running properly and is ready when needed.

## Features

- Simple 2 or 3 button operation
- Low maintenance
- Durable
- Powerful
- User-friendly



## Specifications

### Dimensions

**Height:** 4" (10.2 cm)

**Width:** 10.5" (26.7 cm)

**Depth:** 11.6" (29.5 cm)

**Weight:** Monophasic: 6.2 lbs (2.8kg); Biphasic: 5.3 lbs (2.4 kg) (Without batteries)

### Defibrillator

**Input:** ECG via QUIK-COMBO or FAST-PATCH disposable electrodes. Standard placement (anterior – lateral).

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

**Waveform:** Monophasic pulse (Edmark) per AAMI DF2-1989, 3.2.1.5.1. Biphasic 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, non-rechargeable battery pack, or a new fully charged rechargeable battery pack: 200 joules in less than 9 seconds, 360 joules in less than 15 seconds.

**Controls:** ON/OFF – turns device power on or off. ANALYZE (optional) – starts ECG analysis. SHOCK – delivers defibrillation energy. Active only when shock advisory system advises defibrillation.

**Clock Set:** Two switches are provided to set the clock.

**Display:** Two- line, 20-character per line dot matrix liquid crystal display.

**Low Battery Indicator:** Low battery icon: at least 11 discharges remaining with non-rechargeable battery pack. At least 6 discharges remaining with rechargeable battery pack.

**Service Indicator:** Service icon.

**Displayed Messages:** Prompt user through complete operating sequence.

**Audible Tones:** Coded tones assist user through device operation and alert operator of display messages.

**Voice Prompts:** prompt user through complete operation sequence.

### 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 setup option is OFF. At least 60 minutes if not configured with audio recording.

**Report type:** CODE SUMMARY report, Event Log report, and Test Log report. **Capacity:** 300 Event log events. 30 Test Log device tests (assuming no fault codes).

Data Review: LIFENET system compatible.



## Specifications

### Batteries

**Rechargeable SLA Battery Pak – Type:** Sealed lead-acid, 8V, and 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 hour. Battery charging limited to +15° to +35°C (+59° to +95°F).

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

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

**Non-rechargeable Lithium Battery Pak – Type:** sealed lithium, 12V, and 7.5 amp-hours.

**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:** 1.2 lbs (0.5 kg)

### Environmental

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

**Storage Temperature:** -30° to +65°C (-22° to +149°F) without battery and electrodes. -30° to +65°C (-22° to +149°F) with battery and electrodes, maximum exposure time limited to one week.

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

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

**Water Resistance:** IEC 60529/EN 60529 IPX4 “Splash-proof” 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:** MIL-STD-810E, Method 514.4, Helicopter—Category 6 (3.75 g rms) and Ground Mobile—Category 8 (3.15 g rms). RTCA/DO-160C, Table 8–2 Fixed Wing—Turbojet Engine Classification C’ (Fuselage). Test level per Figure 8–5 C’. One hour in each of three axes.

**Aircraft:** RTCA/DO-160D, “Environmental Conditions and Test Procedures for Airborne Equipment,” Section 21, Category M, (Radiated Emissions).

