

## Data sheet

# LIFEPAK® CR2 defibrillator

## USB

### Features

- Layered, easy to follow design
- QUIK-STEP electrodes for both adult and paediatric patients
- Faster time to first shock<sup>1</sup>
- Child Mode button
- Fully automatic and semi-automatic models available



Sudden cardiac arrest (SCA) can happen to anyone—anywhere. Immediate treatment is vital. A victim's chance of survival dramatically decreases for every minute without treatment.<sup>2</sup> That's why public access defibrillators are so important. They put lifesaving technology where it can do the most good. So when an emergency happens, you should have nothing less than the best.

- **Designed for user confidence**  
CR2 will keep the rescuer focused on what really matters—saving a life.<sup>1</sup>
- **Layered design**  
Layered design with easy to follow bold graphics. Both trained and untrained AED users clearly know how to begin.
- **QUIK-STEP™ electrodes**  
Peel directly off the base for faster placement.
- **Child Mode**  
Child mode delivers lower energy levels appropriate for young children without having to change electrodes.
- **Metronome and CPR coaching**  
Quickly sets an effective pace and audibly guides users.
- **ClearVoice™ technology**  
Detects background noise and adjusts tones and voice prompts to ensure they can be heard clearly in noisy environments.
- **Highest available escalating energy**  
Up to 360J for more effective shocks as needed.
- **LIFEPAK TOUGH™**  
IP55 rating for challenging environments.
- **8-year warranty**  
Backed by an 8-year warranty.

# Specifications

## Defibrillator

**Waveform:** Biphasic Truncated Exponential with voltage and duration compensation for patient impedance.

**Patient impedance range:**  
10 – 300 ohms.

**Energy accuracy:**  
10% of the energy setting into 50 ohms.  
15% of the rated energy output into 25 – 175 ohms.

**Output energy sequence:** Multiple levels, configurable from 150 joules to 360 joules.

**Energy default:** 200J, 300J, 360J (adult)  
50J, 75J, 90J (paediatric).

**Shock Advisory System™:** An ECG analysis system that advises whether a shock is appropriate; meets rhythm recognition criteria specified in IEC 60601-2-4.

**CPR coaching:** Instructions for adult and paediatric CPR, including feedback when no CPR is detected, rate and depth guidance, a metronome and instructions on hand placement.

**Time to shock at 360J after CPR:**  
- **Semi-automatic:** < 17 seconds

**Charge time:** 0 seconds for first 150J or 200J shock (as device is pre-charged).

## Controls

**Lid release/ON-OFF:**  
Controls device power.

**Shock button, semi-automatic:** Delivers energy when button pressed by the user.

**Shock button, fully automatic:** Flashes prior to delivering shock without requiring user intervention.

**Child Mode button:** Allows operator to switch to Child Mode for reduced energy and CPR guidance appropriate for children from one year old.

**Electrical protection:** Input protected against high voltage defibrillator pulses per IEC 60601-1/EN 60601-1.

**Safety classification:** Internally powered equipment. IEC 60601-1/EN 60601-1.

## References

- 1 Physio-Control Internal Semi-Automatic AED Comparison Usability Study, August 2016.
- 2 Graham R, McCoy M, Schultz A. Strategies to Improve Cardiac Arrest Survival, A Time to Act. Institute of Medicine Report, 2015.

All claims valid as of June 2019.

For further information, please contact your Stryker representative or visit our website at [strykeremergencycare.com](http://strykeremergencycare.com)

## Emergency Care Public Access

AED users should be trained in CPR and in the use of the AED.

Although not everyone can be saved, studies show that early defibrillation can dramatically improve survival rates. AEDs are indicated for use on adults and children. AEDs may be used on children weighing less than 25 kg (55 lbs) but some models require separate defibrillation electrodes.

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## User interface

**User interface:** The user interface includes voice prompts and audible tones.

**ClearVoice™ technology:** Detects background noise and adjusts audio and voice prompts to ensure they can be heard clearly in noisy environments.

**Device status indicators:** Visual and audible indicators indicating system readiness (device, pads and battery).

## Environmental

**Note:** All performance specifications defined assume the unit has been stored (two hours minimum) at operating temperature prior to operation.

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

**Storage temperature:** -30° to +60°C (-22° to +140°F) with battery and electrodes, maximum exposure time limited to one week.

**Long term storage:** Always store the defibrillator within the recommended temperature range of 15° to 35°C (59° to 95°F).

**Altitude:** -382 to 4,572 m (-1,253 to 15,000 ft).

**Relative humidity:** 5 to 95% (non-condensing).

**Water resistance:** IEC 60529/EN 60529 IPX5 with electrodes connected and battery installed.

**Dust resistance:** IEC 60529/EN 60529 IP5X with electrodes connected and battery installed.

**Shock:** IEC 60068-2-27, (40g, 11 ms pulse, ½ sine each axis).

**Vibration:** MIL-STD-810G, Method 514.6, Helicopter – category 14 and Ground Vehicle – category 20.

## Physical characteristics

**With handle, including electrodes and battery:**

**Height:** 9.7 cm (3.8 in).

**Width:** 22.6 cm (8.9 in).

**Depth:** 27.4 cm (10.8 in).

**Weight:** 2.0 kg (4.5 lb).

## Accessories

### Primary battery

- **Type:** Lithium manganese dioxide (Li/MnO<sub>2</sub>), 12.0V, 4.7 amp-hours.
- **Capacity (at 20°C):** Will provide 166 200 joule shocks (with one minute of CPR between shocks) or 103 360 joules shocks (with one minute of CPR between shocks) or 800 minutes of operating time.
- **Standby life (assuming daily tests only):** A new battery provides device power for 4 years if installed in device that is not used.
- **Replace battery indication:** At least 6 shocks and 30 minutes of operating time remain when first indicated.
- **Weight:** 0.3 kg (0.7 lb).

### Electrode pads

- **Pads:** Can be used on both adult and paediatric patients.
- **Pads packaging:** User intuitive, rapid access electrodes.
- **Pads replacement:** Replace every 4 years.

## Data storage

**Memory type:** Internal digital memory (flash RAM).

**ECG storage:** Minimum 60 minutes of ECG stored for two patient episodes.

## Communications

**Communications:** USB



**CE Class IIB (0123)**  
Physio-Control, Inc.  
11811 Willows Road NE  
Redmond, WA, 98052 U.S.A.  
Toll free 800 442 1142  
[strykeremergencycare.com](http://strykeremergencycare.com)

Stryker European  
Operations B.V.  
Herikerbergweg 110  
1101 CM Amsterdam  
Netherlands

for Physio-Control, Inc.  
Tel +31 (0)43 3620008  
Fax +31 (0)43 3632001

### Distributed by:

Stryker UK Ltd  
Stryker House  
Hambridge Road  
Newbury, Berkshire  
RG14 5AW  
United Kingdom