

# Lifeline AED

## Semi-Automatic Defibrillator Standard Capacity Battery

Defibtech has designed a revolutionary new semi-automatic external defibrillator, from the ground up.

Technologically advanced enough to include all mission critical features necessary to provide the most advanced treatment for Sudden Cardiac Arrest. Yet so simple and unthreatening to use that even non-medical personnel can effectively save lives.

The Lifeline AED was developed by experienced multidisciplinary engineering teams and incorporates state-of-the-art digital signal processing techniques and advanced ECG analysis algorithms.

The Lifeline AED defibrillator uses advanced biphasic technology — including the most studied biphasic shock waveform — and automatically adjusts the shock delivery to the person's individual needs.

For first response professionals like police, fire and EMS, the Lifeline AED is standard equipment. For schools, offices, stores, malls, factories, and public places, it's becoming as vital as the fire extinguisher.

Lifeline is the simplest AED to use and has been designed by physicians so that ANYONE can save a life. In a study by the University of Illinois involving 5 market leading AEDs, participants were able to deliver a defibrillation shock with the Lifeline AED quicker and more successfully than with any of the other AEDs tested.

The standard capacity Lifeline Defibrillator Battery (approx. shelf life of 4.5 – 5 years) is capable of performing 125 defibrillator shocks or 8 hours of continuous operation.

- **The easiest to use AED**  
Proven by an independent study
- **Simple and unthreatening design**  
No lids or moving parts that may slow down or delay a rescue
- **Tough and robust design**
- **Self-maintaining unit**  
Performs daily/weekly/monthly self-tests and constantly displays status via bright indicator light
- **8-year manufacturers warranty**
- **Long lasting batteries**  
Capable of delivering up to 300 shocks if needed
- **Lightweight**  
At only 1.9kg the unit can be easily transported to the patient

## Life-Saving Technology Within Reach



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LIFECARE  
Making Life Better

# Lifeline AED Semi-Automatic Defibrillator

## Technical Specifications

### Defibrillator

**Type:**  
Semi-automatic external defibrillator

**Model:**  
DDU - 100A

**Waveform:**  
Biphasic Truncated Exponential  
(Impedance compensated)

**Energy:**  
150 Joules (Nominal into 50 ohm load)

**Shock-to-Shock Cycle Time:**  
Less than 20 seconds (typical, includes analysis and charging time)

**Voice Prompts**  
Extensive voice prompts guide user through operation of the unit

**Controls**  
Lighted On/Off button  
Lighted Shock button

**Indicators**  
“check pads”  
“do not touch patient”  
“analyzing”  
armed-for-shock  
AED status LED

**Charge Time\***  
DBP-2800: Less than 6 seconds  
DBP-1400 Less than 9 Seconds

**Size**  
8.5 x 11.8 x 2.7 inches  
(22 x 30 x 7 cm)

**Weight (Approximate)**  
With DBP-1400: 4.2 lbs (1.9kg)



### Defibrillation / Monitoring Pads

**Model:**  
Adult - DDP-100  
Child/Infant - DDP-200P

**Surface Area\*\*:**  
Adult: 16 inches<sup>2</sup> (103 cm<sup>2</sup>)  
Child / Infant: 7.75 inches<sup>2</sup> (50 cm<sup>2</sup>)

**Pad Placement:**  
Adult - Anterior/Anterior  
Child/Infant - Anterior/Posterior

**Cable Length (typical):**  
48 In (122 cm)

**Type:**  
Pre-connected, single-use,  
non-polarized, disposable,  
self-adhesive electrodes with  
cable and connector  
\*\*Nominal, each pad

### Self Tests

**Automatic**  
Automatic daily, weekly and monthly  
circuitry tests

**Battery Insertion**  
System integrity test on battery  
insertion

**Pad Presence**  
Pads preconnected tested daily

**User-Initiated**  
Unit and battery pack system test may  
also be initiated by the user

**Status Indication**  
Visual and audible indication of unit  
status

### Battery Pack

**Model**  
DBP-1400

**Power**  
15V, 1400 mAh

**Capacity (new, at 25°C)**  
- 125 Shocks or 8 hours continuous  
operation

**Standby-Life (Typical)**  
4.5 - 5 Years

**Type**  
Lithium/Manganese Dioxide  
Disposable, recyclable,  
non-rechargeable

**Low Battery Indicators**  
Visible, Audible



### Event Documentation

**Internal Event Record**  
Critical ECG segments and rescue event parameters are recorded and can be downloaded to a removable data card

**PC-Based Event Review**  
ECG with event tag display, and audio playback when available

**Removable Storage**  
(Optional)  
Up to 12 hours of ECG and event data storage (no audio option) or up to 1:40 of audio, ECG and event storage (audio option) on a removable data card. Actual length of storage is dependant on card capacity

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## Technical Specifications

### Environmental

#### Relative/Humidity

Operating/Standby: 5%- 95%  
(non-considering)

#### Altitude

-500 to 15,000 ft (-150 to 4500m)  
per MIL-STD-810F 500.4 Procedure II

#### Temperature

Operating: 0 to 50°C (32 to 122°F)  
Standby: -25 to 50° (-13 to 122°F)

#### Shock/Drop Abuse Tolerance

MIL-STD-810F 516.5 Procedure IV  
(1 meter, any edge, corner or surface, in standby mode)

#### ESD

EN 61000-4-2:1998, (open air up to 8kV or direct contact up to 6kV)

#### Vibration

Ground (MIL-STD-810F 514.4 Category 20)

Helicopter (RTCA/DO-160D, Section 8.8.2, Cat R, Zone, 2, Curve G)

Jet Aircraft (RTCA/DO-160D, Section 8, Cat H, Zone 2, Curves B& R)

#### Sealing/Water Resistance

IEC60529 class IP54; Splash proof, Dust Protected  
(Battery Pack installed)

#### EMC (Immunity)

EN 60601-1-2 (1993), method  
EN 61000-4-3: 1998  
Level 3 (10V/m)

#### EMC (Emission)

EN 60601-1 -2 (1993) method  
EN 55011: 1998  
Group 1 Level B

### Patient Analysis System

#### Patient Analysis

Automatically evaluates patient impedance for proper pad contact.

Monitors signal quality and analyzes patient ECG for shockable/  
nonshockable rhythms

#### Sensitivity/Specificity

Meets AAMI-DF-39 specifications and AHA recommendations



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