

# LIFELINE

Life-Saving Technology Within Reach



## **LIFELINE AED Semi-automatic Defibrillator**

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.

This enables the device to exceed the American Heart Association performance recommendations, giving the user confidence the correct therapy is being delivered.

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 AED Semi-automatic Defibrillator

## Technical Specifications\*

### Defibrillator

**TYPE**

Semi-automatic external defibrillator

**MODELS**

DDU-100A, DDU-100E

**WAVEFORM**

Biphasic Truncated Exponential (Impedance compensated)

**ENERGY**

150-Joules (nominal into 50 ohm load)

**CHARGE TIME** (typical)

Less than 6 seconds (DBP-2800 battery pack)  
Less than 9 seconds (DBP-1400 battery pack)

**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”
- AED status LED

### Patient Analysis System

**PATIENT ANALYSIS**

Automatically evaluates patient impedance for proper pad contact. Monitors signal quality and analyzes patient ECG for shockable/non-shockable rhythms

**SENSITIVITY/SPECIFICITY**

Meets AAMI-DF-39 specifications and AHA recommendations

### Battery Pack

**MODEL** DBP-2800**MODEL** DBP-1400**POWER**

15V, 2800 mAh

**POWER**

15V, 1400 mAh

**CAPACITY** (new, at 25° C)

– 300 shocks or 16 hours continuous operation

**CAPACITY** (new, at 25° C)

– 125 shocks or 8 hours continuous operation

**STANDBY-LIFE** (typical)

– 7 years

**STANDBY-LIFE** (typical)

– 5 years

**TYPE**

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

**LOW BATTERY INDICATORS**

- Visible
- Audible

### Self Tests

**AUTOMATIC**

Automatic daily, weekly and monthly circuitry tests

**USER-INITIATED**

Unit and battery pack system test initiated by the user

**BATTERY INSERTION**

System integrity test on battery insertion

**STATUS INDICATION**

Visual and audible indication of unit status

**PAD PRESENCE**

Pads preconnected tested daily

### Defibrillation/Monitoring Pads

**MODEL**

Adult – DDP-100  
Child/Infant – DDP-200P

**SURFACE AREA**

103 cm<sup>2</sup> (nominal, each pad)  
50 cm<sup>2</sup> (nominal, each pad)

**TYPE**

Pre-connected, single-use, non-polarized, disposable, self-adhesive electrodes with cable and connector

**PAD PLACEMENT**

Adult – Anterior/Anterior  
Child/Infant – Anterior/Posterior

**CABLE LENGTH** (typical)

48 in (122 cm)

### 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 dependent on card capacity

### Environmental

**TEMPERATURE**

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

**RELATIVE HUMIDITY**

Operating / Standby: 5% – 95% (non-condensing)

**ALTITUDE**

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

**VIBRATION**

Ground (MIL-STD-810F 514.5 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)

**SHOCK / DROP****ABUSE TOLERANCE**

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

**SEALING / WATER RESISTANCE**

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

**ESD**

EN61000-4-2: 1998, (open air up to 8kV or direct contact up to 6kV)

**EMC (Emission)**

EN60601-1-2 limits (1993), method EN55011: 1998 Group 1 Level B

**EMC (Immunity)**

EN60601-1-2 limits (1993), method EN61000-4-3: 1998 Level 3 (10V/m)

### Physical

**SIZE**

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

**WEIGHT (Approximate)**

With DBP-1400: 4.2 lbs (1.9 kg)  
With DBP-2800: 4.4 lbs (2.0 kg)