

# LIFE LINE

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

#### MODEL

DDU-100A, DDU-100E

#### WAVEFORM

Biphasic Truncated Exponential  
(Impedance compensated)

#### ENERGY

Adult: 150 Joules  
Pediatric: 50 Joules  
(Nominal into 50 Ohm load)

#### CHARGE TIME\*\*

DBP-2800: Less than 6 seconds  
DBP-1400: Less than 9 seconds

#### VOICE PROMPTS

Extensive voice prompts  
guide user through operation  
of the unit and CPR

#### CPR PACING

Metronome

#### CONTROLS

Lighted On/Off button  
Lighted Shock button

#### INDICATORS

- "check pads"
- "do not touch patient"
- "analyzing"
- AED Status LED

\*\*Typical, with new battery at 25° C

### 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
<b>POWER</b> 15V, 2800 mAh	<b>POWER</b> 15V, 1400 mAh
<b>CAPACITY</b> 300 shocks or 16 hours continuous operation**	<b>CAPACITY</b> 125 shocks or 8 hours continuous operation**
<b>STANDBY LIFE</b> 7 years**	<b>STANDBY LIFE</b> 5 years**

#### TYPE

Lithium/Manganese Dioxide  
Disposable, recyclable,  
non-rechargeable

#### LOW BATTERY INDICATORS

Visible  
Audible

\*\*Typical, with new battery at 25° C

### Self Tests

#### AUTOMATIC

Automatic daily, weekly, monthly  
and quarterly 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

### Defibrillation/Monitoring Pads

#### MODEL

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

#### TYPE

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

#### SURFACE AREA

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

#### 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 2 hours 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 (with battery installed):  
0 to 50°C (32 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

EN 61000-4-2:2009 (open air up to  
15kV or direct contact up to 8kV)

#### EMC (Emission)

EN 60601-1-2:2001 +A1:2006, limits  
EN 55011:1998 +A1:1999 +A2:2002  
Group 1 Level B, method

#### EMC (Immunity)

EN 60601-2-4:2003, limits  
EN 61000-4-3:2002  
Level 3 (10V/m), method

### 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)

\*Specifications subject to change without notice



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DAC-700-EN-BC rev A

ELECTRONIC DISTRIBUTION