

Lifeline AED



Lifeline AED Semi-Automatic Defibrillator

Defibtech Lifeline AEDs offer industry-leading innovation, simplicity, and elegance. They are so easy to use, virtually anyone can quickly and effectively use a Defibtech AED to help save a life.

Defibtech designed its revolutionary semi-automatic external defibrillator from the ground up. Developed by experienced multidisciplinary engineering teams, the Lifeline AED 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.

In the event of a cardiac arrest, defibrillation using an AED within three minutes can increase survival rates from less than 8 percent to more than 70 percent. The Lifeline AED includes all mission critical features necessary to provide the most advanced treatment for Sudden Cardiac Arrest and uses biphasic technology, allowing it to automatically adjust the shock delivery to the person's individual needs.

Deployments include workplaces, government buildings, airports and aircraft, rail stations and trains, educational institutions, malls, factories, emergency vehicles, healthcare facilities, resorts, arenas, and marine vessels. More than a quarter-million units have been shipped worldwide.

Defibtech 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
Child / Infant: 50 Joules
(Nominal into 50 Ohm load)

CHARGE TIME*

4 seconds or less
(from shock advised)

VOICE PROMPTS

Extensive voice prompts guide user through operation of the unit

CPR PACING

Metronome

CONTROLS

Lighted On/Off button
Lighted Shock button

INDICATORS

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

RESCUE PROTOCOL

AHA/ERC (default);
supports protocol updates

*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 or exceeds IEC-60601-2-4 requirements; meets AAMI DF80 requirements and AHA recommendations

BATTERY PACK

| MODEL DBP-2800 | MODEL DBP-1400 |
|---|---|
| POWER 15VDC, 2800 mAh | POWER 15VDC, 1400 mAh |
| CAPACITY 300 shocks or 16 hours continuous operation* | CAPACITY 125 shocks or 8 hours continuous operation* |
| STANDBY LIFE 7 years (installed in AED with 9V ASI battery)* | STANDBY LIFE 5 years (installed in AED with 9V ASI battery)* |

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 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**

Adult: 16 inches² (103 cm²)
Child / Infant: 7.75 inches² (50 cm²)

**Nominal, each pad

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 hour and 40 minutes of audio (audio option). ECG and event storage 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)
One Hour Operating Temperature Limit (extreme cold):
-20°C (-4°F)**
Standby: 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

IEC 60529 class IP54;
Dust Protected, Splash Proof (battery pack installed)

ESD

EN 61000-4-2
(15kV or direct contact up to 8kV)

EMC (Emission)

EN 55011 Class B Group 1 and FCC Part 15

EMC (Immunity)

EN 61000-4-3 (20V/m)

***From room temperature to temperature extreme, one hour duration

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)

