

LIFEFORCE®

Saving your crew at the push of a button

LIFEFORCE® is an AED specifically designed for the marine environment and was the **world's first defibrillator to be Type Approved** by Germanischer Lloyd (GL).

In an independent study, LIFEFORCE® was found to be **quicker, easier and more successful to use** than any of the other leading AEDs tested.



THE BENEFITS

- **Simple to use** - Automatically detects when defibrillation is required
- **Type approved** - Tested to a high standard
- **Portable and lightweight** - Built-in handle and only 1.9kg
- **Hardwearing and weatherproof** - Rubberised handles and sides provides ultimate protection from impact damage
- **Future proof** - On-board upgrades within 3 minutes, free of charge
- **8-year warranty**
- **Range of training options available**
- **World-wide support**



LIFEFORCE®

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 | DBP-1400 |
|----------------------------|--|---|
| POWER | 15V, 2800 mAh | 15V, 1400 mAh |
| CAPACITY (new, at 25°C) | 300 shocks or 16 hours continuous operation | 125 shocks or 8 hours continuous operation |
| STANDBY-LIFE (typical) | 6.5-7 years | 4.5-5 years |

TYPE

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

LOW BATTERY INDICATORS

- Visible
- Audible

SELF TESTS

AUTOMATIC

Automatic daily, weekly and monthly circuitry tests

BATTERY INSERTION

System integrity test on battery insertion

PAD PRESENCE

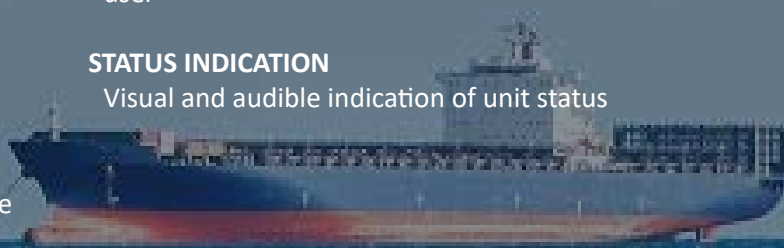
Pads preconnected tested daily

USER-INITIATED

Unit and battery pack system test initiated by the user

STATUS INDICATION

Visual and audible indication of unit status



Martek Marine
Adwick Park, Manvers,
Rotherham, South Yorkshire,
S63 5AB, UK

www.martek-marine.com
info@martek-marine.com
UK Office: +44 (0)1709 599 222
Singapore Office: +65 6408 3334



LIFEFORCE®

Technical Specifications

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 cm² (nominal, each pad)
- 50 cm² (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 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)

Specifications subject to change without notice

Martek Marine
Adwick Park, Manvers,
Rotherham, South Yorkshire,
S63 5AB, UK

www.martek-marine.com
info@martek-marine.com
UK Office: +44 (0)1709 599 222
Singapore Office: +65 6408 3334

