

# 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

### POWER

15V, 2800 mAh

### CAPACITY (new, at 25° C)

– 300 shocks or 16 hours continuous operation

### STANDBY-LIFE (typical)

– 7 years

### TYPE

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

### MODEL DBP-1400

### POWER

15V, 1400 mAh

### CAPACITY (new, at 25° C)

– 125 shocks or 8 hours continuous operation

### STANDBY-LIFE (typical)

– 5 years

### 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

## 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 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

