HeartSine samaritan® PAD

Public Access Defibrillator

Compact, easy-to-use, lifesaving technology.

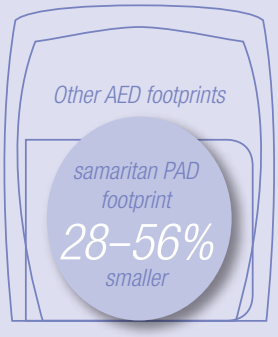
Sudden Cardiac Arrest (SCA) is a leading cause of death globally. Response time is critical for survival. The HeartSine samaritan® PAD was designed especially for use in public areas by providing a sophisticated defibrillator for adult or pediatric use, inside a lightweight and easy-to-operate system.

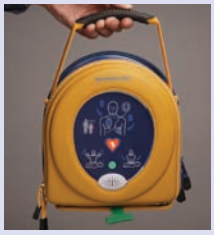
Compact in size, long on ability.

Portable. The samaritan PAD is lighter (2.4 lbs.) and smaller than other defibrillators.

Durable. The samaritan PAD resists shock and vibration and carries an IP56 Rating, the industry's highest rating against dust and water. It can be taken and used virtually anywhere, even in the most inclement conditions. It also carries a 7-year unit warranty.

Advanced technology. SCOPE™* Biphasic technology automatically optimizes energy output for each person, and has been reported to provide significantly better performance in removing ventricular fibrillation (VF) by the third shock.**





2.4 lbs. light.

Easy-to-follow visual and verbal guides.

User-friendly. The samaritan PAD features easy-to-understand visual and oral prompts that guide a user through the process.

Two-button operation. Only two buttons, ON and SHOCK, are required, providing straightforward operation.

Always ready. A System Status Ready Indicator flashes to show that the complete system is operational and ready for use. Device automatically runs self check each week.

Visual cues prompt pad placement

Stand clear of the patient

It is safe to touch the patient

Real economy for the real world.

Two parts, one expiration date. Pad-Pak™ cartridge combines battery and electrode pads, with one expiration date to monitor.

Low cost of ownership. Cartridge typically has a shelf-life of 3.5 years from date of manufacture, offering significant savings over other defibrillators that require separate battery and pad units.

Pad-Pak™ and Pediatric-Pak™, with pre-attached electrodes

Technical Overview

HeartSine®

Physical
With Pad-Pak™ Battery Inserted

Size: 8.0 in x 7.25 in x 1.9 in (20cm x 18.4cm x 4.8cm)
Weight: 2.4 lbs (1,1 kg) including Pad-Pak™ Battery

Defibrillator
Waveform: (Self-Compensating Output Pulse Envelope) Biphasic waveform. Optimized biphasic escalating waveform compensates energy, slope and envelope for patient impedance

Energy Selection
Pre-configured factory settings for escalating energy are AHA/ERC 2005

Adult
1. Shock 150J 2. Shock 150J 3. Shock 200J

Pediatric
1. Shock 50J 2. Shock 50J 3. Shock 50J

Charging Time
New Battery: Typically 150J in <8 sec., 200J in < 12 sec.
After 6 discharges: Typically 150J in <8 sec., 200J in < 12 sec.

Patient Analysis System
Method: Evaluates patient's ECG, signal quality, electrode contact integrity and patient impedance to determine if defibrillation is required
Sensitivity/Specificity: Meets ISO 60601-2-4 and AAMI DF80:2003.

Environmental
Operating/Standby Temperature: 0°C to 50°C (+32°F to +122°F)
Temporary Transportation Temperature: –10°C to 50°C (14°F to 122°F) for up to two days. Unit must be returned to standby/operating temperature for 24 hours before use.
Relative Humidity: 5% to 95% (non-condensing)
Water Resistance: IEC 60529/EN 60529 IP56
Altitude: 0 to 15,000 feet (0 – 4,575 meters)
Shock: MIL STD 810F Method 516.5, Procedure I (40G's)
Vibration: MIL STD 810F Method 514.5+
Category 4 Truck Transportation – US Highways
Category 7 Aircraft – Jet 737 & General Aviation (Exposure)
EMC: EN 60601-1-2, Second Edition: 2002
Radiated Emissions: ENSS-11:1999+A2:2001
Electrostatic Discharge RF Immunity: EN61000-4-3:2001 80MHZ-2.5GHZ (10V/m)
Magnetic Field Immunity: EN61000-4-8:2001 (3 A/m)
Aircraft: RTCA / DO – 160D: 1997, Section 21 (Category M) TSO-C142/RTCA DO-227
Falling height: 1 meter

Event Documentation
Type: Internal memory
Memory Capacity: 45 minutes of ECG (full disclosure) and event/incident recording
Playback Capabilities: Custom USB cable directly connected to PC and Saver™ EVO Windows-based data review software

Materials Used
PAD SAM300P: ABS, Santoprene. Printed circuit board with electronic components.
PAD Cartridge: Battery: Lithium Manganese Dioxide
Housing: ABS – Electrodes: Hydrogel, Silver, Aluminium and Polyester

Pad-Pak™– Electrode and Battery Cartridge
Adult Pad-Pak (Pad-Pak-01) and Pediatric Pad-Pak (Pad-Pak-02)

Shelf Life: Typically 3.5 years from manufacture date
Weight: 0.44 lbs (0.2kg)
Size: 3.93 in x 5.24 in x .94 in (10cm x 13.3cm x 2.4cm)
Battery Type: Lithium Manganese Dioxide ($LiMnO_2$) 18V, 0.8 Amp Hrs
Capacity: >30 shocks at 200J or 6 hours of continuous monitoring
Electrodes: Samaritan® disposable defibrillation pads are supplied as standard with each device
Placement: Anterior-lateral (Adult); Anterior-posterior (Pediatric)
Active Gel Area: 100cm²
Cable Length: 3.5 ft (1m)

*Self Compensating Output Pulse Envelope technology automatically compensates energy, slope and pulse envelope for the patient.
**Efficacy of Distinct Energy Delivery Protocols Comparing Two Biphasic Defibrillators for Cardiac Arrest, Walsh, McClelland, Owens, Anderson, Turner, Adgey; *The American Journal of Cardiology,* Vol. 94, Aug.1, 2004

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Distributed by:

CAUTION: U.S. Federal law restricts this device to sale by or on the order of a licensed practitioner.

CE The products described in this brochure all meet the applicable European Medical Directive requirements.

HeartSine®

Lifesaving Technology Designed for the Real World. Since 1998.