



HeartSine®

Inventor. Innovator. Lifesaver.

# HeartSine samaritan® PAD 300P

## Public Access Defibrillator



### Compact, Easy-to-Use, Lifesaving Technology

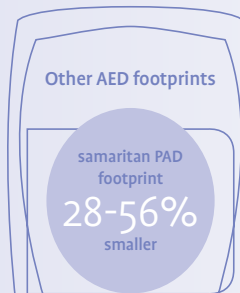
Sudden Cardiac Arrest (SCA) is a leading cause of death globally. Response time is critical for survival. The HeartSine samaritan® PAD 300P was designed especially for use in public areas by providing a sophisticated defibrillator for adult or pediatric use, inside a lightweight and easy-to-operate system.

#### Compact in Size, Long on Ability

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

**Durable.** The samaritan PAD 300P resists shock and vibration and carries an IP56 Rating, the industry's highest rating against dust and water. It also carries a 10-year unit warranty.

**Advanced technology.** The samaritan PAD 300P utilizes proprietary electrode technology, advanced and stable firmware, and proprietary SCOPE™\* Biphasic Technology (an escalating and low-energy waveform that automatically adjusts for patient impedance differences) to assess rhythm and recommend defibrillation if necessary.



Other AED footprints

samaritan PAD footprint  
28-56% smaller



Advanced technology balanced against the demands of real world use. At HeartSine, our innovation changes lives. And saves lives.

#### Easy-to-Follow Visual and Verbal Guides

**User-friendly.** The samaritan PAD 300P features easy-to-understand visual and voice prompts that guide a user through the process.

**Two-button operation.** Only two buttons, ON/OFF 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 has a shelf life of 4 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.

The HeartSine PAD's built-in intelligence and unique pediatric Pad-Pak ensure the appropriate energy level is delivered for children.



\*Self-Compensating Output Pulse Envelope technology automatically compensates energy, slope and pulse envelope for the patient.

Physical	With Pad-Pak™ Inserted
<b>Size:</b>	8.0 in x 7.25 in x 1.9 in (20cm x 18.4cm x 4.8cm)
<b>Weight:</b>	2.4 lbs (1,1 kg) including Pad-Pak Battery

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

Energy Selection	
<b>Adult:</b>	1. Shock 150J 2. Shock 150J 3. Shock 200J
<b>Pediatric:</b>	1. Shock 50J 2. Shock 50J 3. Shock 50J

Charging Time	
<b>New Battery:</b>	Typically 150J in <8 sec., 200J in < 12 sec.
<b>After 6 Discharges:</b>	Typically 150J in <8 sec., 200J in < 12 sec.

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

Environmental	
<b>Operating/Standby Temperature:</b>	0°C to 50°C (+32°F to +122°F)
<b>Temporary Transportation Temperature:</b>	-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.
<b>Relative Humidity:</b>	5% to 95% (non-condensing)
<b>Water Resistance:</b>	IEC 60529/EN 60529 IP56
<b>Altitude:</b>	0 to 15,000 feet (0 – 4,575 meters)
<b>Shock:</b>	MIL STD 810F Method 516.5, Procedure I (40G's)
<b>Vibration:</b>	MIL STD 810F Method 514.5+ Category 4 Truck Transportation – US Highways Category 7 Aircraft – Jet 737 & General Aviation (Exposure)
<b>EMC:</b>	EN 60601-1-2, Second Edition: 2002

Environmental (continued)	
<b>Radiated Emissions:</b>	EN55011:1999+A2:2001
<b>Electrostatic Discharge RF Immunity:</b>	EN61000-4-3:2001 80MHZ-2.5GHZ (10V/m)
<b>Magnetic Field Immunity:</b>	EN61000-4-8:2001 (3 A/m)
<b>Aircraft:</b>	RTCA/DO-160F: 1997, Section 21 (Category M) RTCA DO-227
<b>Falling Height:</b>	1 meter

Event Documentation	
<b>Type:</b>	Internal Memory
<b>Memory Capacity:</b>	90 minutes of ECG (full disclosure) and event/incident recording
<b>Playback Capabilities:</b>	Custom USB cable directly connected to PC and Saver™ EVO Windows-based data review software

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

Pad-Pak – Electrode and Battery Cartridge	
<b>Adult Pad-Pak (Pad-Pak-01) and Pediatric Pad-Pak (Pad-Pak-02)</b>	
<b>Shelf Life:</b>	4 years from manufacture date
<b>Weight:</b>	0.44 lbs (0.2kg)
<b>Size:</b>	3.93 in x 5.24 in x .94 in (10cm x 13.3cm x 2.4cm)
<b>Battery Type:</b>	Lithium Manganese Dioxide (LiMnO <sub>2</sub> )
<b>Capacity:</b>	Meets ISO 60601-2-4 and AAMI DF80:2003 18V, 1.5 Amp Hrs
<b>Electrodes:</b>	HeartSine samaritan® disposable defibrillation pads are supplied as standard with each device
<b>Placement:</b>	Anterior-lateral (Adult); Anterior-posterior (Pediatric)
<b>Active Gel Area:</b>	100cm <sup>2</sup>
<b>Cable Length:</b>	3.5 ft (1m)

## Lifesaving, Pure and Simple

### US/Americas

HeartSine Technologies, Inc.  
121 Friends Lane, Suite 400  
Newtown, PA. 18940  
Toll Free: (866) 478 7463  
Tel: (215) 860 8100  
Fax: (215) 860 8192  
info@heartsine.com

### Europe/Rest of the World

HeartSine Technologies, Inc.  
203 Airport Road West  
Belfast, Northern Ireland BT3 9ED  
Tel: +44 (0) 28 9093 9400  
Fax: +44 (0) 28 9093 9401  
info@heartsine.co.uk



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

© 2011 HeartSine Technologies, Inc.  
All rights reserved. H009-006-062-4

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



HeartSine®

Inventor. Innovator. Lifesaver.

www.heartsine.com