



HeartSine®

Inventor. Innovator. Lifesaver.

HeartSine® samaritan® PAD 300P

Public Access Defibrillator with CPR Coaching

Aviation



Count On Us For Cardiac Emergencies — Because Every Second Counts...On The Ground And In The Air

Are you prepared to respond to a cardiac emergency in your terminals, ground operations and/or airliners? Sudden Cardiac Arrest (SCA) strikes without warning. It can happen to anyone, at any time. Without defibrillation treatment within 3-4 minutes, per ERC/AHA guidelines, the results could be deadly.

Aviation industry personnel should keep the HeartSine samaritan PAD 300P Public Access Defibrillator, with a battery carrying the FAA's latest TSO-C142a certification, close at hand for the best outcomes for SCA recovery. It's the ideal solution for airlines and aviation facilities:

- Simple to use by anyone regardless of skill level
- Smallest and lightest AED on the market makes it easy to store for the space-constrained, weight-sensitive aviation industry
- Designed with lifesaving technology compatible for both adults and children
- Industry-leading 10-year warranty for maximum reliability
- Comprehensive indemnification coverage protects employees and customers, whether trained or untrained, for life of the AED

HeartSine also offers a comprehensive AED solution that includes planning, design, implementation and administration, enabling medical oversight, training and management of AED devices through a single point of contact.

The HeartSine PAD 300P battery is certified by the FAA and carries the most stringent approval for lithium batteries for aviation use with TSO-C142a.

Why HeartSine?

- ▶ **Lowest Cost of Ownership:** Lifesaving technology is available at the lowest total cost of ownership over the life of the unit.
- ▶ **Easiest To Use:** Designed for use by rescuers of all skill levels, the samaritan PAD is a completely self-contained unit. No lid to open. No complex displays or controls. Its simple two-button operation and intuitive voice/visual prompts with clear instructions guide the user through every step, including pad application, shock delivery and CPR.
- ▶ **Clinically Advanced:** samaritan PAD 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.
- ▶ **One Change Maintenance:** Competitive products require batteries and electrodes with individual expiration dates requiring customers to track. The samaritan PAD 300P integrates both items into a self-contained cartridge called the Pad-Pak.™ One expiration date on the pads and batteries means less to manage, inventory and order.
- ▶ **Highest Ingress Protection (IP) Rating:** The samaritan PAD has a rating of IP56, providing the 300P with the highest level of protection from dust or moisture ingress in the industry.

Lifesaving, Pure and Simple

Physical	With Pad-Pak™ 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	
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, 2007

Environmental (continued)	
Radiated Emissions:	EN55011:2009
Electrostatic Discharge RF Immunity:	EN61000-4-3:2006 80MHZ-2.5GHZ (10V/m)
Magnetic Field Immunity:	EN61000-4-8:2001 (3 A/m)
Aircraft:	RTCA/DO-160F: 2007, Section 21 (Category M) FAA certification TSO-C142a
Falling Height:	1 meter

Event Documentation	
Type:	Internal Memory
Memory Capacity:	90 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	
samaritan® PAD 300P:	ABS, Santoprene. Printed circuit board with electronic components.
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:	4 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 (LiMnO2)
Capacity:	Meets ISO 60601-2-4 and AAMI DF80:2003 18V, 1.5 Amp Hrs
Electrodes:	HeartSine 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)

Distributed By:

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

EMEA/ASP

HeartSine Technologies, Inc.
203 Airport Road West
Belfast, Northern Ireland BT3 9ED
Tel: +44 (0) 28 90 93 94 00
Tel: +44 (0) 28 90 93 94 01
info@heartsine.co.uk



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

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



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