

HeartSine® samaritan® PAD 500P AED

Automated External Defibrillator with Integrated CPR Advisor™

Data sheet

Key link in the chain of survival

Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillators (AEDs) are key links in the chain of survival of sudden cardiac arrest (SCA). Some cardiac events are treatable with effective CPR alone. Others require a combination of effective CPR and the delivery a lifesaving shock by an AED. Either way, every minute counts.

Typically, only about five percent of SCA victims survive. However, survival rates can increase up to 74% if CPR and a shock from an AED are provided within three minutes of collapse. Reducing response time by even one or two minutes from collapse to shock can mean the difference between death and survival. ²

More than a simple AED, the HeartSine samaritan PAD 500P (SAM 500P) Automated External Defibrillator (AED) with integrated CPR Advisor meets the needs of two key links in the chain of survival. Not only can the SAM 500P deliver a lifesaving shock, it provides real-time visual and verbal feedback to the rescuer on the force and rate of CPR compressions during an SCA resuscitation — effectively assisting the rescuer to perform CPR.



Real-time CPR feedback

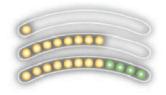
Integrated real-time CPR feedback

Proprietary CPR Advisor provided with the SAM 500P provides real-time visual and verbal feedback to the rescuer on the force and rate of CPR compressions during an SCA resuscitation, without the use of an accelerometer.

Verbal prompts include: Push faster, Push slower, Push harder and Good compressions.

Easy-to-follow visual and verbal guides

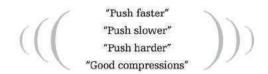
Designed for ease of use, the HeartSine samaritan PAD 500P uses easy-to-understand visual and voice prompts to guide the rescuer through the entire CPR process, providing specific feedback on the force and rate of compressions.



No CPR being performed/Push harder

Push harder

Good compressions



Ready to shock

Highest level of protection against dust and water

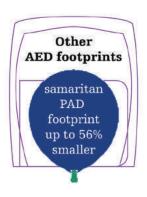
Offers unmatched ruggedness with its high IP56 rating.

Clinically validated technology³

Proprietary electrode technology and SCOPE biphasic technology, a low energy escalating waveform, that automatically adjusts for differences in patient impedance.

Portable and lightweight

Most portable AED offered by a leading manufacturer with its light weight (1.1 kg) and compact footprint.



Simple to own

Two parts, one expiration date

The innovative Pad-Pak, $^{\text{M}}$ an integrated battery and electrode single-use cartridge with one expiration date, offers one simple maintenance change every four years.

Low cost of ownership

Shelf life of four years means that the Pad-Pak offers significant savings over other defibrillators that require separate battery and electrode replacements.



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

The HeartSine samaritan PAD's built-in intelligence and unique Pediatric-Pak ensure the appropriate energy level (50 J) is delivered for children, between 1 and 8 years of age or up to 25 kg (55 lb).

CPR Advisor is deactivated when the Pediatric-Pak is in use.



Specifications

Defibrillator

Waveform: Self-Compensating Output Pulse Envelope (SCOPE) optimised biphasic escalating waveform compensates energy, slope and duration for patient impedance

Patient analysis system

Method: Evaluates patient's ECG, electrode contact integrity and patient impedance to determine if defibrillation is required

Sensitivity/Specificity: Meets IEC/EN 60601-2-4

Impedance range: 20-230 ohms

Energy selection

Pad-Pak

Shock 1: 150J Shock 2: 150J Shock 3: 200J

Pediatric-Pak:

Shock 1: 50J Shock 2: 50J Shock 3: 50J

Charge time (typical):

150J in < 8 seconds, 200J in < 12 seconds

Environmental

Operating/Standby temperature:

0°C to 50°C (32°F to 122°F)

Transportation temperature:

-10°C to 50°C (14°F to 122°F) for up to two days. If the device has been stored below 0°C (32°F), it should be returned to an ambient temperature of between 0°C to 50°C (32°F to 122°F) for at least 24 hours before use.

Relative humidity: 5% to 95%

non-condensing

Enclosure: IEC/EN 60529 IP56
Altitude: 0 to 4 575 metres (0 to

Shock: MIL STD 810F Method 516.5,

Procedure 1 (40 G's)

Vibration: MIL STD 810F Method 514.5,

Procedure 1

15 000 feet)

Category 4 Truck Transportation – US

Highways

Category 7

Aircraft - Jet 737 & General Aviation

EMC: IEC/EN 60601-1-2

Radiated emissions: IEC/EN 55011

Electrostatic discharge: IEC/EN 61000-4-2 (8 kV)

RF immunity:

IEC/EN 61000-4-3 80MHz-2.5 GHz, (10 V/m)

Magnetic field immunity:

IEC/EN 61000-4-8 (3 A/m)

Aircraft: RTCA/DO-160G, Section 21

(Category M)

RTCA/DO-227 (ETSO-C142a)

Falling height: 1 metre (3.3 feet)

Physical characteristics

With Pad-Pak inserted:

Size:

 $20 \text{ cm} \times 18.4 \text{ cm} \times 4.8 \text{ cm}$ (8.0 in \times 7.25 in \times 1.9 in)

Weight: 1.1 kg (2.4 lb)

Accessories

Pad-Pak Electrode and Battery Cartridge

Shelf life/Standby life: See the expiration date on the Pad-Pak/Pediatric-Pak (4 years from manufacture date)

Weight: 0.2 kg (0.44 lb)

Size:

10 cm x 13.3 cm x 2.4 cm (3.93 in x 5.24 in x 0.94 in)

Battery type: Disposable single-use combined battery and defibrillation electrode cartridge (lithium manganese dioxide (LiMnO_o) 18V)

Battery capacity (new):

> 60 shocks at 200J or

6 hours of continuous monitoring

Electrodes: Disposable defibrillation pads are supplied as standard with each device

Electrode placement: Anterior - lateral

(Adult)

Anterior - posterior or Anterior - lateral

(Pediatric)

Electrode active area: 100 cm^2

 $(15 in^2)$

Electrode cable length: 1 metre

(3.3 feet)

Aircraft safety test (ETSO-certified Pad-Pak): RTCA/DO-227 (ETSO-C142a)

Data storage

Memory type: Internal memory

Memory storage: 90 minutes of ECG (full disclosure) and event/incident recording

Review: Custom USB data cable (optional) directly connected to PC with Saver EVO™ Windows®-based data review software

Materials used

Defibrillator housing: ABS, Santoprene

Electrodes: Hydrogel, Silver, Aluminium

and Polyester

Warranty

AED: 8-year limited warranty





References

- 1. Valenzuela TD, et al. 2000. Outcomes of Rapid Defibrillation by Security Officers After Cardiac Arrest in Casinos. New England Journal of Medicine. 343:1206-09.
- 2. Mosesso Jr VN, et al. 2002. Proceedings of the National Center for Early Defibrillation Police AED Issues Forum. Prehospital Emergency Care. 6(3):273-82.
- 3. Walsh SJ, McClelland A, Owens CG, Allen J, McC Anderson J, Turner C, Adgey J. Efficacy of distinct energy delivery protocols comparing two biphasic defibrillators for cardiac arrest. Am J Cardiol. 2004:94:378-380.

 $For futher information \ contact \ us \ at \ \textbf{heartsine support} @ \textbf{stryker.com} \ or \ visit \ our \ website \ at \ \textbf{heartsine.com} \\$

EMEA/APAC

HeartSine Technologies, Ltd. 203 Airport Road West Belfast, BT3 9ED United Kingdom

Tel: +44 28 9093 9400 Fax: +44 28 9093 9401



culus UL Classified. See complete marking on product.

The SAM 500P is not available for sale in the U.S.

© 2019 HeartSine Technologies. All rights reserved. H009-014-025-4 IE



(Authorized Representative)

ProMed Marketing Sdn Bhd (1076527 W)

No.1 (1st & 2nd Floor),

Jalan BPU 7, Bandar Puchong Utama, 47100 Puchong, Selangor, Malaysia

Tel : +603-5891 7275 : +603-5891 7276 Fax

 $Email: \ first aid@promed.com.my$ winson@promed.com.my