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HeartSine® samaritan® PAD 350P/360P AEDs

Semi-automatic/fully automatic public access defibrillators

Data sheet

Compact, easy-to-use, lifesaving technology for public access

Sudden cardiac arrest strikes millions of people a year worldwide with no warning and no pattern.[1] Immediate treatment is vital. A victim's chance of survival dramatically decreases for every minute without treatment.[2] This means an Automated External Defibrillator (AED) must be close at hand, easy to use and ready to shock.

The semi-automatic HeartSine samaritan PAD 350P (SAM 350P) and fully automatic HeartSine samaritan PAD 360P (SAM 360P) offer a high level of environmental protection, in an easy-to-operate system in the smallest and lightest package available among leading AEDs.

The fully automatic SAM 360P detects motion, such as performing CPR or moving the patient, to reduce the likelihood that the user is touching the patient prior to shock delivery.

Ready to shock

Unique Pediatric-Pak
Ensures the guidelines-recommended energy level is delivered for children, between 1 and 8 years of age or up to 25 kg (55 lb).

High level of protection from dust and water
Offers IP56 rating, one of the highest ratings in the industry.

Clinically validated technology[3]
Advanced electrode technology and SCOPE biphasic technology, a low energy escalating waveform that automatically adjusts for differences in patient impedance.

Highly portable
With the lightest weight and most compact footprint among leading AEDs, is easily transported and fit into constrained spaces.

Easy-to-follow visual and verbal guides

User-friendly
Easy-to-understand visual and voice prompts guide the rescuer through the entire resuscitation process, including CPR.

One- or two-button operation
With just an ON/OFF button (and the SHOCK button on the SAM 350P), offers a simple, straightforward operation.

Automatic shock delivery / Motion detection
Fully automatic SAM 360P* detects motion, such as performing CPR or moving the patient, to reduce the likelihood that the user is touching the patient prior to shock delivery.

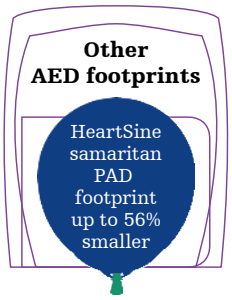
Ready for use
The status indicator flashes to show the system has passed the automatic weekly self test and is ready for use.

Simple to own

Two parts, one expiration date
The innovative Pad-Pak, 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 may offer savings over other defibrillators that require separate battery and electrode replacements.

8-year warranty
Backed by an 8-year limited warranty.



*Warning: The SAM 360P is a fully automatic defibrillator. When required, it will deliver a shock to the patient without user intervention.

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

Pediatric-Pak:
Shock 1: 50 J
Shock 2: 50 J
Shock 3: 50 J

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)

Transport temperature:
0°C to 50°C (32°F to 122°F)

NOTE: It is recommended that the device should be placed in an ambient temperature of between 0°C to 50°C (32°F to 122°F) for at least 24 hours upon first receipt.

Relative humidity: 5% to 95% non-condensing

Water resistance: IEC 60529/ EN60529 IPX6 with electrodes connected and battery installed

Dust resistance: IEC 60529/ EN60529 IP5X with electrodes connected and battery installed

Enclosure: IEC/EN 60529 IP56

Altitude: -381 to 4 575 metres (-1,250 to 15,000 feet)

Shock: MIL STD 810F Method 516.5, Procedure 1 (40 G's)

Vibration: MIL STD 810F Method 514.5, Procedure 1
Category 4 Truck Transportation – US Highways

Category 7 Aircraft – Jet 737 & General Aviation

Atmospheric pressure: 572 hPa to 1060hPa (429 mmHg to 795 mmHg)

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 cm x 18.4 cm x 4.8 cm
(8.0 in x 7.25 in x 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 ($LiMnO_2$) 18V)

Battery capacity (new):
> 60 shocks at 200J or 6 hours of battery use

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 (TSO/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. Mehra R. Global public health problem of sudden cardiac death. *Journal of Electrocardiology*. 2007;40 (6):S118-S122.
2. Graham R, McCoy M, Schultz A. Strategies to Improve Cardiac Arrest Survival, A Time to Act. *Institute of Medicine Report*. 2015.
3. Walsh SJ, McClelland A, Owens CG, et al. Efficacy of distinct energy delivery protocols comparing two biphasic defibrillators for cardiac arrest. *Am J Cardiol*. 2004;94:378–380.

All claims valid as of June 2021.

For further information, please contact your Stryker representative or visit our website at strykeremergencycare.com

Emergency Care Public Access

AED users should be trained in CPR and in the use of the AED.

Although not everyone can be saved, studies show that early defibrillation can dramatically improve survival rates. AEDs are indicated for use on adults and children. AEDs may be used on children weighing less than 25 kg (55 lb) but some models require separate defibrillation electrodes.

The information presented is intended to demonstrate Stryker's product offerings. Refer to operating instructions for complete directions for use indications, contraindications, warnings, cautions, and potential adverse events, before using any of Stryker's products. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your representative if you have questions about the availability of Stryker's products in your area. Specifications subject to change without notice.

CE 0123 HeartSine samaritan PAD is CE marked (class IIb – 0123) in accordance with EU MDD 93/42 and other applicable directives. It will reclassify to CE class III – 0123 in accordance with the EU MDR on or before the end of the MDR transition period May 2024. Pad-Pak and Pediatric Pak are CE marked (class IIb – 0123) in accordance with applicable directives.

HeartSine samaritan PAD: UL Classified. See complete marking on product.

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