

# HeartSine samaritan<sup>®</sup> PAD 500P with CPR Advisor

## Zoll AED Plus Product Comparison



### HeartSine samaritan<sup>®</sup> PAD 500P

### Zoll AED Plus



**10-YEAR WARRANTY**

✓	ICG-based CPR feedback	✗	Force transducer-based CPR feedback
✓	Compact, portable, lightweight (1.1 kg)	✗	Larger, heavier (3 kg)
✓	Highest level of protection from dust or moisture ingress in the industry (IP56)	✗	Lower water resistance rating (IP55)
✓	Integrated battery and electrodes	✗	Separate battery and electrodes; requires 10 separate consumer grade batteries
✓	4-year electrode life	✗	2-year electrode life
✓	One item to track and replace after use or upon expiration	✗	11 items to track and replace after use or upon expiration (10 batteries and pads)
✓	Charging time typically 150J in < 8 seconds, 200J in < 12 seconds	✗	Charging time typically 15.6 seconds
✓	10-year warranty	✗	7-year warranty
✓	Language selection options	✗	No language selection options
✓	90-minute ECG recording time	✗	15-minute ECG recording time
✓	Carry case included	✗	Carry case not included in some markets
✓	Low escalating energy protocol (SCOPE)	✗	Fixed width escalating energy protocol
✓	Operating impedance range of 25 – 230 ohms	✗	Operating impedance range of 25 – 175 ohms
✓	Audible and visual prompts	✓	Audible and visual prompts
✓	Automatic self test	✓	Automatic self test
✓	Pediatric compatible	✓	Pediatric compatible
✓	Field upgradeable to latest AHA/ERC guidelines	✓	Field upgradeable to latest AHA/ERC guidelines
✓	Lower total cost of ownership – acquisition and operating expense		

# Heartsine samaritan® PAD 500P Technical Overview



Physical	With Pad-Pak™ Inserted
<b>Size:</b>	20 cm x 18.4 cm x 4.8 cm (8.0 in x 7.25 in x 1.9 in)
<b>Weight:</b>	1.1 kg (2.4 lbs) including Pad-Pak Battery

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

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

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 – 4,575 meters (0 to 15,000 feet)
<b>Shock:</b>	MIL STD 810F Method 516.5, Procedure I (40 G'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
<b>Radiated Emissions:</b>	EN55011
<b>Electrostatic Discharge RF Immunity:</b>	EN61000-4-3 80MHZ-2.5GHZ (10 V/m)
<b>Magnetic Field Immunity:</b>	EN61000-4-8 (3 A/m)
<b>Aircraft:</b>	RTCA/DO-160F, Section 21 (Category M)
<b>Falling Height:</b>	1 meter (3.3 feet)

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

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

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>samaritan® PAD 500P:</b>	ABS, Santoprene. Printed circuit board with electronic components.
<b>Housing:</b>	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)	
<b>Shelf Life:</b>	4 years from manufacture date
<b>Weight:</b>	0.2 kg (0.44 lbs)
<b>Size:</b>	10 cm x 13.3 cm x 2.4 cm (3.93 in x 5.24 in x .94 in)
<b>Battery Type:</b>	Lithium Manganese Dioxide (LiMnO2)
<b>Capacity:</b>	> 60 shocks at 200J 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>	100 cm² (15.5 in²)
<b>Cable Length:</b>	1 meter (3.3 feet)

## Lifesaving, Pure and Simple

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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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