

HeartSine samaritan® PAD 500P with CPR Advisor

Zoll AED Plus Product Comparison



HeartSine samaritan® PAD 500P

Zoll AED Plus

✓	ICG-based CPR feedback	✗	Force transducer-based CPR feedback
✓	Compact, portable, lightweight (2.4 lbs/1.1 kg)	✗	Larger, heavier (6.7 lbs/3 kg)
✓	Highest level of protection from dust and 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 (Stat padz)
✓	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
✓	90-minute ECG recording time	✗	15-minute ECG recording time
✓	Language selection options	✗	No language selection options
✓	Low escalating energy protocol (SCOPE)	✗	Fixed width escalating energy protocol
✓	Operating impedance range of 25 – 230 ohms	✗	Operating impedance range of 25 –180 ohms (delivered energy reduces rapidly after 175 ohms)
✓	Carry case included	✗	Carry case not included in some markets
✓	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		



10-YEAR WARRANTY

Heartsine samaritan® PAD 500P Technical Overview



Physical	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 lbs) including Pad-Pak Battery

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

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

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

Energy Selection	
Adult:	Shock 1: 150J; Shock 2: 150J; Shock 3: 200J
Pediatric:	Shock 1: 50J; Shock 2: 50J; Shock 3: 50J

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

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 500P:	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-03) and Pediatric Pad-Pak (Pad-Pak-04)	
Shelf Life:	4 years from manufacture date
Weight:	0.2 kg (0.44 lbs)
Size:	10 cm x 13.3 cm x 2.4 cm (3.93 in x 5.24 in x .94 in)
Battery Type:	Lithium Manganese Dioxide (LiMnO2)
Capacity:	> 60 shocks at 200J 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:	100 cm² (15.5 in²)
Cable Length:	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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